



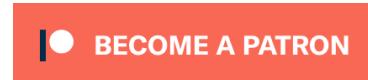
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**SMALL ARMS TRAINING**

**VOLUME I.— PAMPHLET No. 14.  
(AUSTRALIA)**

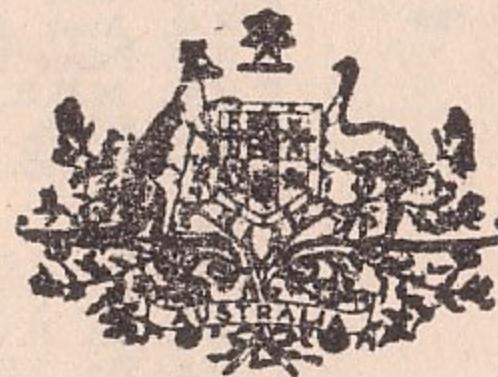
**SMALL ARMS PRACTICES**

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# **SMALL ARMS TRAINING**

**VOLUME I.— PAMPHLET No. 14  
(AUSTRALIA)**

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# **SMALL ARMS PRACTICES**

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1943

**SCALE OF DISTRIBUTION.**

**Small Arms Training. Pamphlet 14—Small Arms Practices.**

L.H.Q.—	
"G" Branch	35
"A" Branch	15
"Q" Branch	25
"O" Branch	35
Adv. L.H.Q.	20
H.Q. Army	10
H.Q. Corps	5
H.Q. Force	5
H.Q. Div.	5
H.Q. L. of C. Area	50
R.A.A.F.	1000
Aust. Movt. Control Gp. Docks	
Control Det.	1
Army Sec. Int. Corps	1
Corps Sec. Int. Corps	1
Div. Sec. Int. Corps	1
Force Sec. Int. Corps	1
CAV.—	
H.Q. Armd. Div.	5
H.Q. Aust. Mot. Bde.	5
H.Q. Aust. Armd. Bde.	5
H.Q. Aust. Army Tk. Bde.	5
Cav. Regt.	15
Mot. Regt.	15
Armd. Regt.	15
Army Tk. Bn.	15
ARTY.—	
Fd. Regt.	10
Army Fd. Regt.	10
Tk. A. Regt.	10
Med. Regt.	10
Lt. A.A. Regt.	8
Hy. A.A. Regt.	8
Tk. A. Bty.	4
F. Sp. Bty.	4
Fd. Bty.	4
Svy. Bty.	4
Mountain Bty.	4
ENGRS.—	
Fd. Coy.	3
Fd. Sqn.	3
Fd. Pk. Sqn.	3
Fd. Pk. Coy.	3
Army Fd. Coy.	3
Corps Fd. Pk. Coy.	3
Camflg. Trg. Unit	1
Fd. Svy. Depots	1
Fd. Svy. Coy.	2
Fd. Svy. Sec.	1
C.E. Wks.	1
C.R.E. Wks.	1
D.C.R.E. Wks.	1
A. Tps. Coy.	3
Wkshop and Pk. Coy.	3
Mechanical Equipment Coy.	2
SIGS.—	
H.Q. Aust. Spec. Wireless Gp.	3
L.H.Q. Hy. Wireless Gp.	3
Aust. Line Sec.	1
Aust. Ops. Sec.	1
Aust. Telegraph Ops.	1
Aust. Switchboard Sec.	1
Aust. Wireless Sec.	1
Aust. Consn. Sec.	1
Aust. Tech. Maint. Sec.	1
Aust. Tech. Line Sec.	1
Aust. D.R. Sec.	1
Beach Sig. Sec.	1
A.S. Control	1
INF.—	
H.Q. Aust. Inf. Bde.	5
H.Q. Aust. Inf. Bn.	10
H.Q. Force Inf. Coy.	3
H.Q. M.U.R.	1
H.Q. S.U.R.	1
Force Indep. Mortar Pl.	1
M.G. Bn.	10
Pnr. Bn.	10
Grn. Bn. I.C.	10
Grn. Bn. C.D.	10
Grn. Bn. P.W.	10
Grn. Bn. I.S.	10
Grn. Coy.	2
H.Q. Gd. Bn.	3
S. & T.—	
H.Q. Comd. Army Tps.	1
H.Q. Comd. Corps Tps.	1
H.Q. Comd. Div. Tps.	1
H.Q. Comd. Armd. Div. Tps.	1
H.Q. Comd. Force Tps.	1
H.Q. Comd. Corps Tpt. Coln.	1
H.Q. Comd. Central Aust. Tpt. Coln.	1
Gen. Tpt. Coy.	5
Aust. Coy. A.A.S.C.	5
Army Tk. Bde. Coy.	5
D.I.D.	1
Water Carrying Coy.	1
C.T. Amn. Coy.	5
C.T. Pet. Coy.	5
C.T. Sup. Coy.	5
Aux. H.T. Depots	2
Sup. Per. Coy.	2
ORD.—	
L.H.Q. Car Coy.	1
Aust. Ord. Store Coy.	1
Aust. Wkshop A.E.M.E.	1
Aust. Ord. Amn. Coy.	1
Adv. Wkshop A.E.M.E.	1
Aust. Ord. Fd. Pk. Coy.	1
L.A.Ds.	1
MISC.—	
Salvage Unit	1
L. of C. Area G.D.D.	3
L. of C. Area R.R.D.	2
Leave Transit Camps	2
A.R.Ds.	5
Independent Cosys.	5
L.H.Q. Def. Cosys.	2
Def. & Emp. Pls.	2

**SCALE OF DISTRIBUTION.**

**Small Arms Training. Pamphlet 14—Small Arms Practices.**

TRAINING DEPOTS—	
One per instructor	
SCHOOLS—	
R.M.C. & S.S.	10
S.A.S.	200
S. of M.I.	2
S. of Radiophysics	1
A.F.V. School	5
S. of Arty., Fd. Med. & Svy.	3
S. of Arty, A.A.	3
S. of Arty, Tk. A.	2
School of Searchlights, R.A.A.	3
S. of M.E., Fd.	5
Army Bomb Disposal	2
Camflg. Development & Trg. Centre, R.A.E.	3
School of Sigs.	5
O.C.T.U.	200
L.H.Q. Tactical School	2
Inf. Trg. Centre (J.W.)	5
Gas School	3
P. & R.T. School	2
A.A.S.C. School	2
A.A.O.C. School	2
A.E.M.E. School	2
School of Mech.	2
Pro.	2
Junior Leaders' School	5
Army Schools, Bulk	20
Corps Schools	10
Force Schools	10
Group 244 (Army)	10
V.D.C., per Bn.	6

## GENERAL.

1.—This Pamphlet gives details of the Tables to be fired by various units of the A.M.F., and sets out clearly the requisite instructions for each Practice. These instructions must not be modified without authority. The Pamphlet should be in the possession of all Officers controlling either aspect of Range Practices, i.e., Firing Point or Butts. Pamphlet No. 1—Weapon Training should be referred to for other details in connection with the organisation of Range Practices, not specifically catered for in the instructions given herein.

2.—Personnel to Fire, Range Practices to be fired and Ammunition Allotted for that purpose are detailed in G.R.O.'s.

3.—It must be appreciated by all concerned that Classification Range Practices are only a phase in the training of the soldier. They are designed to produce confidence in and knowledge of, his weapon's capabilities when engaging targets of known size at specified distances; to develop his individual skill and rangecraft, and to test his elementary training.

Further training in the application of fire in the form of Battle Practices (Individual and Section) and Field Exercises with ball ammunition are essential in the case of the soldier handling the Rifle, L.M.G. or M.M.G., before he can be regarded as being "trained for war."

4.—The importance of conserving Ammunition is stressed. Whilst the training of troops to the highest state of efficiency is of paramount importance and must at all times receive first consideration, the need for the strictest economy is ever present. Material and manpower are playing ever-increasing parts in the war effort, and the avoidance of unnecessary waste must be kept constantly in mind.

5.—In the case of weapon training, the thoroughness of elementary work is an important factor. This, together with .22-inch R.F. miniature practices, will help to ensure that the man has acquired such skill as will enable him to obtain full benefit from the lessons of range practices without waste of Ammunition. Every round of .303-inch Ammunition or other item of Ammunition which can be saved without detriment to training, increases the amount of Ammunition available for direct war expenditure, and the importance of this aspect should be continually impressed on all ranks.

In this connection the following remarks relative to training apply:—

- (a) That personnel firing have passed T.O.E.T. (S.A.T., Vol. 1, Pamphlet I., Sec. 5).

- (b) That weapons have been zeroed (S.A.T., Vol. I., Pamphlet I., Appx. I—see also A.T.M. (War) (Aust.) No. 11, Para. 15).
- (c) It is imperative that all officers and N.C.O.s. attend and take an active interest in the firing of Range Courses, coach and instruct their own men and ensure that records are kept.

Provision has been made in the allotment of .303-inch S.A.A. Ball, for certain units, to fire Rifle, L.M.G. and M.M.G. practices bi-annually.

6.—The necessity for MORE REALISM IN TRAINING is realised, and to this end the C.O.'s. Pool of S.A.A. has been increased. Advantage will be taken of this facility to conduct Individual and Section Battle Practices.

7.—It must be understood that Ammunition held by Units as War Equipment is not to be expended at practice without the approval of Divisional or higher authority. This is particularly necessary in the case of .303-inch Ball Ammunition, as fairly large supplies of "Practice Only" Ammunition held in A.A.O.D. must be expended first. Where supplies of Ammunition are held on units charge for practice purposes, they must be segregated from Unit War Equipment, and action taken to ensure that this segregation is maintained.

Small Arms Ammunition sentenced as "Practice Only" will not be used for overhead fire in battle training, owing to the risk of accidents occurring from defective rounds.

The arranging of correct storage for ammunition whilst in the possession of Units is of prime importance, particularly regarding:—

- (a) Prevention of deterioration.
- (b) Safe custody. Only officers and other ranks whose duties require them to enter buildings or shelters in which Ammunition is stored should have access to the Ammunition. Unless this point receives special attention it is possible that unauthorised persons may become possessed of Ammunition and dispose of it to unscrupulous traders for use for sporting purposes and big game shooting.

8.—In order to facilitate the passage of Unit requisitions for Ammunition through A.A.O.D. it is important that demands should be accompanied by a list showing:—

- (a) Details of how the quantities demanded are made up.
- (b) Amounts required for (i.) Rifle, (ii.) L.M.G., and (iii.) M.M.G. are to be shown separately. Belt packed Ammunition will only be issued under special L.H.Q. authority.

- (c) Stocks of Ammunition on hand (if any) are to be shown, and the quantities thus held deducted from the total Ammunition to which the Unit is entitled.

9.—The strictest attention must be paid to the recovery of unconsumable portions and components of Ammunition such as empty fired cases, bandoliers, packages, cylinders and the many associated parts of Ammunition. Many of these stores can be used again for packing or fitting to Ammunition, and other items have a high-grade material value. All these articles should be returned periodically to the nearest A.A.O.D. depot.

10.—All personnel "qualifying" at a course at the Small Arms School or "passing" at a Small Arms Course conducted under Army or Corps arrangements can be regarded as having completed the annual requirement for range practices with the weapon or weapons concerned for that year.

The classification recorded will be either that gained for the previous year, or First Class, whichever is the higher. In the case of Mortars, Grenades, etc., for which statutory practices are not specified, they will be recorded as "Exercised."

11.—C.O.'s. of units are responsible that a record of Small Arms performance is entered on the appropriate sheet in the paybook or A.A.B.83—Soldier's Record of Service Book of each individual under their command.

## MINIATURE RANGE PRACTICES

No.	Practice	Target	Range	Bounds	Detail	Remarks	H.P.S.
1	Grouping 100/25	Grouping 100/25	25	5	Lying. Forearm and wrist supported against suitable cover	To test the firer's ability to hold aim and press the trigger correctly 1 inch group = 25 points 2 " " = 20 " 3 " " = 15 " 3 " 1 wide = 10 " (T.O.E.T.—Standard Test No. 9)	25
2	Application	Small 100/25	25	6*	Lying. Forearm and wrist supported against suitable cover *1 Sighter (not to count)	To test the firer's ability to apply his shots centrally to the target, based on his known grouping capacity and position of M.P.I.	25
3	Application	Small 200/25	25	6*	Lying. Forearm and wrist supported against suitable cover *1 Sighter (not to count)	To test the firer's ability to apply his shots centrally to the target, based on his known grouping capacity and position of M.P.I.	25
4	Snapshooting	Small 200/25	25	5	Lying. Forearm and wrist supported against suitable cover. The firer may be in the aiming position when the target appears (or the order "Fire" is given). Time limit = 6 seconds for each shot. The result of each shot should be indicated to the firer before another shot is fired	To test the firer's ability to apply a quick shot at a target appearing for a limited time. Bullseyes and Inners only to count for score	25

## MINIATURE RANGE PRACTICES—continued.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
5	Snapshooting (Optional)	Large Snap Disc 200/25	25	5	Lying. Forearm and wrist supported against suitable cover. Butt of rifle to be in contact with the ground until the target appears (or order "Fire" is given). Time limit = 6 seconds per shot. The result of each shot should be indicated to the firer before another shot is fired.	—	—

9 AMMUNITION.  
Practices 1 to 4 = 22 rds.

QUALIFIED.  
60 points and a grouping standard within the limits laid down in Practice 1.

Repetitions allowed, if necessary, in order to qualify.

NOTES.—Practices should be fired during the elementary period of the Recruit's training and before Practices with Service ammunition are commenced.  
It is essential before Practice 1 is commenced that rifles used are correctly zeroed to produce an M.P.I. on the point of aim.  
Whenever possible, the rifle used by the Recruit for the Grouping Practice should be used by him for all remaining Practices on the Miniature Range.  
For Application practices, an alteration of 100 yards on the backsight will give approx. 1 inch difference in height of M.P.I. at 25 yards.  
Where facilities for practice at 25 yards are not available, shorter range may be utilised, providing that it is in no case less than 15 yards from muzzle to target face. In such cases, the Qualification standard will be increased as under:—  
20 yards range = 65 points.  
15 " " = 70 "

Personnel failing to group within the limits specified in Practice 1 should not be further exercised until analysis of their weakness and corrective training have been completed.  
For Practice 2 the Grouping target will be used, the white patch being covered by a suitable black patch.

RIFLE COURSE—ALL UNITS ARMED WITH RIFLES

30 Yards Range.—Recruits—without bayonets fixed; trained soldiers—with bayonets fixed.

Open Range.—Bayonets to be fixed for all Practices up to and including 300 yards by personnel so equipped.

PART I—PRELIMINARY

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
0	Introductory	Nil	Any Available	5	To be fired in the following sequence :— Lying, Kneeling, Sitting, Standing and from the Hip (Stationary)	To introduce the Recruit to the firing of the service rifle in varying service positions	—
1	Grouping	Grouping	100 (or 30) yards	5	Lying. Wrist and forearm supported on suitable cover	4 inch group = 25 pts. 8 " = 20 " 12 " = 15 " 12 " 1 wide = 10 "	25
2	Application	Small	200 (or 30) yards*	7 $\phi$	Lying. Wrist and forearm supported on suitable cover	$\phi$ Two initial shots as "Sighters"—(not to count)	25
3	Application	Large	300 (or 30) yards	7 $\phi$	Lying. Wrist and forearm supported on suitable cover	$\phi$ Two initial shots as "Sighters"—(not to count)	25
		TOTAL	24			TOTAL PART I	75

QUALIFICATION.—40 pts. and a Grouping Standard within the limit shown in Practice 1.

Repetitions allowed in order to reach above standard.

\*When the above Practices are fired on 30 yds. ranges, the representative "Grouping" target will be used for Practice 2, the aiming mark being suitably covered.

RIFLE—PART II—CLASSIFICATION (See Note 1)

Every practice, where possible, will be fired from behind some form of cover, to inculcate in the firer the basic requirement of Fieldcraft. The cover will not be used as a support for the rifle

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Application	Small	200	7*	Lying	* Two initial shots as "Sighters"—(not to count)	25
2	Snapshooting	Large Snap Disc	200	10	Lying. Firer may be in aiming position when target appears. 5 exposures of 10 seconds each. 2 shots to be fired at each exposure. An interval of 20 seconds between exposures. Targets to appear in same position for each exposure	Scores to be telephoned or signalled at conclusion of practice and hits indicated by spotting discs. No marking during practice	50
3	Application	Large	300	7*	Lying	* Two initial shots as "Sighters"—(not to count)	25
4	Controlled Application	Large	300	5	Lying. Firer in position, ready to fire on appearance of target. The target will be exposed for a period of 2 minutes. No marking whatever during the Practice, nor will Coaching be permitted during the firing of the series (See Note 2)	Object.—To test the firer's ability to apply a series of shots centrally to the target (consistent with his grouping capacity), and his judgment of atmospheric influence. On expiration of the time limit, the target will be lowered, spotting discs inserted and the target exposed. Scores to be telephoned or signalled	25

RIFLE—PART II—CLASSIFICATION—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
5	Emergency	Large	300	5	Lying. Firer (rifle unloaded, sight at 200, safety catch applied, charger securely buttoned in pouch) in standing "At Ease" position on firing point.	Object.—To test the firer's ability in manipulating his rifle and firing with accuracy at a rapid rate, against an emergency target.	25
6	Application	Large	400	7*	Lying	*Two initial shots as "Sighters"—(not to count)	25
7	Attack (Fire with movement)	Large	500/50	10	Firer in position (Kneeling) at 500. Rifle fully loaded. On appearance of target, move to 400 and fire 2 rounds in Lying position. On re-appearance of target, move to 300 and fire 2 rounds in the Sitting position. On re-appearance of target, move to 200 and fire 2 rounds in the Kneeling position. On re-appearance of target, move to 100 and fire 2 rounds in the Standing position. (See next page)	Scores will be telephoned or signalled at conclusion of Practice and hits indicated by spotting discs.	50
12						1st, 2nd, 3rd and 4th exposures of target will be for 1 minute each, with an interval between exposures of 15 seconds on each occasion. Good control and fire discipline essential.	

RIFLE—PART II—CLASSIFICATION—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
7 (cont.)					On disappearance of target, firer will advance (walking) at the "High Port". He will halt and fire 2 rounds in the Standing position when the target reappears	The 5th exposure to be for 8 seconds and to be made before the firer passes the 50-yd. point. Signal for 5th exposure to come from controlling officer on firing point	
8	Firing from the Hip (Optional)	Figs. 2 or 3 placed in front of mantlet	80/10 (approx.)	5	To be fired if possible by a party or section of firers under control of an N.C.O. The initial round will be fired whilst the party are stationary; the detail will then advance and will fire the remaining rounds as ordered by the N.C.O. in control	Good control and fire discipline essential. Suitable intervals to be maintained between firers. Firers must not halt to fire whilst advancing, rifle to be maintained throughout in a threatening position, muzzle slightly below the horizontal	

NOTES.—1. The following modifications to the foregoing instructions will be made whenever the "BI-ANNUAL" Course is being fired:—

Practice 2—Firer to assume the "Sitting" position.

"

4—Target exposed for 1 minute only.

"

5—Firer to assume the "Kneeling" position.

"

7—The 1st, 2nd, 3rd and 4th exposures to be for 45 seconds each.

2. Whilst Coaching is not permitted during the firing of Practice 4, Coaches should endeavour to follow the progress of the soldier's Application. This can usually be effected by moving to a flank of the

firing point and by watching the "strike" on the stopbutt.

AMMUNITION.

Part I, 24 rounds.

Part II, 56 "

80

CLASSIFICATION.

1st Class Shot :: .. 145 points

2nd " .. 112 "

Failed to Classify .. under 112 "

## LIGHT MACHINE GUN (BREN) COURSE

### PART I—PRELIMINARY—30 YARDS RANGE

All Practices in this Part to be fired from Bipod in lying position.

To be fired during early stages of training with the L.M.G. and before Open Range practices are attempted.  
Before firing Practices 1 and 2, the zeroing of the gun for elevation and direction must have been carried out.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
0	Introductory	Nil	25	10	Two initial Single Rounds followed by bursts of about 4 rounds each at a suitable area on stopbutt, etc.	To introduce the Recruit to the firing of the L.M.G., methods of fire, etc.	—
1	Grouping (Single Round)	Any suitable (See Note)	25	5	To be fired at the same aiming mark	To test accuracy of aim, combined with trigger pressing. Standard=3-inch group	—
2	Grouping (Automatic)	Any suitable (See Note)	25	10	To be fired in 2 bursts of 5 rounds each, using two magazines, at two separate aiming marks	To practice holding, aiming and length of burst. Result of the first burst to be criticised before the second is fired. Standard=4 shots of 2nd burst to be within 3-inch group	—

#### AMMUNITION    ..    25

NOTE.—Plain screens with 1-inch black aiming marks, arranged to accommodate a number of firers will be found most suitable for the above Practices.

Additional Practices for use on 30 yds. range are shown in Appendix I. These should be fired whenever ammunition and facilities are available.

### PART II—CLASSIFICATION—OPEN RANGE

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Ranging (Single Rounds)	Tiles or plates on stopbutt	200	3	Lying. Gun rested on suitable cover	To establish the elevation and point of aim required for the gun	—
2	Rapid Application (Single Rounds and Automatic)	Small	200	22	Lying. Gun rested on suitable cover. Gun loaded, sight adjusted and firer in position with butt in contact with the ground. Position where target will appear, i indicated to the firer. On the appearance of the target the firer will engage it with 2 single rounds, then change to "Automatic" and continue with bursts of about 4 to 5 rounds at the "Rapid" rate. Exposure=30 seconds	To obtain effective fire on a vulnerable target exposed for a limited period and to practice change of method of fire whilst doing so. <i>Scoring.</i> Each direct hit inside 4 ft. circle on target=2 points	44
3	Ranging (Automatic)	Tiles or Plates on stopbutt	300	10	Lying. Firing from bipod around prepared cover. To be fired in bursts of about 4 to 5 seconds	As for Practice 1	—
4	Action and Distribution (Automatic)	L.M.G. Screen	300	25	Ammunition arranged in 2 magazines (15 in one; 10 in other). Firer lying behind	To practice drill procedure and the effective engagement of an emergency	35

PART II—CLASSIFICATION—OPEN RANGE—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks
4 (cont.)		gun, 5 yds. in rear of firing point, magazines in pouch equipment.* Sights at 200. Position where target will appear, indicated to the firer.	gun, 5 yds. in rear of firing point, magazines in pouch equipment.* Sights at 200. Position where target will appear, indicated to the firer.		On the appearance of the target, the gun will be brought into action (position—as for Practice 3) and the target engaged, fire being distributed irregularly in bursts so as to engage all portions of the target. Time limit = 1 minute • Where pouch equipment is not available, the magazines will be placed on the ground at the firing point position	linear target, at the rapid rate of fire.  <i>Scoring.</i> Each rectangle containing: 1 direct hit :: 4 points 2 direct hits :: 5 " 3 " " " hits: 6 " 4 or "more" hits, 7 "
5	Fleeting Target (Automatic)	Large	300	20	20 rounds in one magazine. Firer in position on the firing point (as in Practice 3). Gun loaded, change lever at "Safe", sight adjusted and butt in contact with the ground. Position where target will appear, indicated to the firer. On the appearance of the target, the firer will engage it with bursts of about 4 to 5 rounds at the "Rapid" rate. Exposure = 20 seconds	40  <i>Scoring.</i> Each direct hit inside 6-ft. circle on target = 2 points.  The quick engagement of a surprise target.

PART II—CLASSIFICATION—OPEN RANGE—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
6	Fixed Line (Optional)	Large	Any con- venient between 600 and 300	10	The gun will be registered on the target by a com- petent instructor using "Single Rounds". The gun will then be removed and the tripod moved slightly, the elevating gear and traversing slide being moved from their original posi- tions. The firer will adjust the tripod for direction, attach the gun and engage the target as a "fixed line", position, firing the rounds allotted in one burst.	Scoring—Nil.  It is important that results are shown to firers. This can be done by using spotting discs in shot holes	119
					90		

## LIGHT MACHINE GUN (LEWIS) COURSE

### PART I—PRELIMINARY—30 YARDS RANGE

All Practices in this Part to be fired from Bipod in lying position.

To be fired during early stages of training with the L.M.G. and before Open Range practices are attempted.

Before firing Practices 1 and 2, the zeroing of the gun for elevation and direction must have been carried out.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
0	Introductory	Nil	25	10	Fired in 2 bursts of 5 rounds each (spaced in the magazine) at a suitable area on stopbutt, etc.	To introduce the Recruit to the firing of the L.M.G.	—
1	Grouping (Single Round)	Any suitable (See Note)	25	5	To be fired at the same aiming mark. Rounds to be spaced in the magazine	To test accuracy of aim combined with trigger pressing. Standard=3-inch group	—
2	Grouping (Automatic)	Any suitable (See Note)	25	10	To be fired in 2 bursts of 5 rounds each (spaced in magazine) at 2 separate aiming marks	To practice holding, aiming, and length of burst. Result of 1st burst to be criticised before the 2nd is fired. Standard=4 shots of 2nd burst to be within 3-inch group	—

#### AMMUNITION .. .. 25

NOTE.—Plain screens with 1-inch black aiming marks, arranged to accommodate a number of firers, will be found most suitable for the above Practices.

Suitable additional practices are given in Appendix I, to be fired when ammunition and facilities permit.

### PART II—CLASSIFICATION—OPEN RANGE

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Ranging	Tiles or Plates on Stopbutt	200	8	Lying. Gun rested on suitable cover. To be fired in 2 bursts (not spaced in magazine).	To establish the elevation and point of aim required for the gun	—
2	Rapid Application	Small	200	22	Lying. Gun rested on suitable cover. Gun loaded, sight adjusted and butt in contact with the ground. Position where target will appear, indicated to the firer. On the appearance of the target the firer will engage it with bursts of about 4 to 5 rounds at the "Rapid" rate. Time limit=25 seconds	To obtain effective fire on a vulnerable target exposed for a limited period. <i>Scoring.</i> Each direct hit inside 4-ft. circle on target=2 points	44
3	Ranging	Tiles or Plates on Stopbutt	300	10	Lying. Firing from bipod around prepared cover. To be fired in bursts of about 4 to 5 rounds.	As for Practice 1	—
4	Action and Distribution	L.M.G. Screen	300	25	Ammunition arranged in 2 magazines (15 in one; 10 in other). Nos. 1 and 2 lying behind gun, 5 yds. in rear of firing point. 10 round magazine on gun, gun not loaded. Sights at 200. No. 2 to have 15-rd. magazine in carrier. (See next page)	To practice drill procedure and the effective engagement of an emergency linear target at the rapid rate of fire.	35

PART II—CLASSIFICATION—OPEN RANGE—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
4 (cont.)					Position where target will appear indicated to firer. On the appearance of the target, the gun will be brought into action (position—as for Practice 3) and the target engaged, fire being distributed irregularly in bursts so as to engage all portions of the target. Time limit=1 minute	<i>Scoring.</i> Each rectangle containing: 1 direct hit .. 4 points 2 direct hits .. 5 .. 3 direct hits .. 6 .. 4 or more hits, 7 ..	
5 Fleeting Target	Large	300	20		Firer in position on firing point (as in Practice 3). Magazine on gun, but gun not loaded. Sight adjusted and butt in contact with ground. Position where target will appear indicated to the firer. On the appearance of the target, the firer will load and engage it with bursts of about 4 to 5 rounds at the "Rapid" rate. Time limit=20 seconds	The quick engagement of a surprise target.  <i>Scoring.</i> Each direct hit inside 6-ft. circle on target= 2 points.	40

AMMUNITION.—Part I .. 2.5

Part II .. 8.5

110

1st Class Lewis Gunner .. .. 85 points  
2nd " .. .. 60 ..  
Not Qualified .. .. under 60 ..  
Repetitions allowed, if necessary, in order to reach 2nd Class standard.

MEDIUM MACHINE GUN (VICKERS) COURSE

PART I—PRELIMINARY—30 YARDS RANGE

Tangent Sight to be used for all Practices.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
0	Introductory	Nil	25	20	To be fired in 2 bursts of 10 rounds each (spaced in belt) at a suitable area on stopbutt.	<i>Object.</i> —To introduce the recruit to the firing of the M.M.G. The Instructor should first demonstrate the actions required, before exercising the Recruits present	—

Before firing the remaining Practices, it is essential that—

(a) The gun and mounting are tested to determine whether a group within the permissible limit is attainable.

(b) The gun is correctly zeroed for Direction.

To test the above.—The Mounting must be upright and all play taken up. Suitable settling bursts fired to stabilise the mounting. 10 rounds to be fired by the "Punch" method in a single burst at a distinct aiming mark. All 10 shots must be contained within a square of 2½-inch sides (see Pamphlet 1, Appx. I). The M.P.I. of the burst (for Direction) should be ¼ of an inch to the right of the line of aim. (See Pamphlet 7, Sec. 7, para. 3).

1	Holding and Grouping	M.G. Spotted Panel or 1 inch black aiming marks	25	20	To be fired in 2 bursts of 10 rounds each (spaced in belt) at 2 separate aiming marks. The Instructor will criticise the effect of the 1st burst and adjust sight-elevation, etc., if necessary, before ordering the 2nd mark to be engaged	<i>Object.</i> —To test the Recruit's ability to hold, aim and fire the M.M.G. and to adjust the elevation, etc.	—
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PART I—PRELIMINARY—30 YARDS RANGE—continued.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
2	Ranging and Application	2-inch and 4-inch Brown Square	25	20	The firer will fire a burst of about 10 rounds at the 2-inch square, using the elevation, etc., determined in Practice 1. He will then fire the remaining rounds at the 4-inch square in one burst, adjusting his elevation and/or point of aim so as to produce effect on the centre of the square	<i>Object.</i> —To practice judgement of length of burst and adjustment of elevation, etc., in the engagement of a specified target. <i>Scoring.</i> Each hit, up to 10, in 4-inch square=2 points	20
3	Tapping Right and Left 1 Tap	Miniature M.G. Screen 12 by 3 inches (Appx. V) or other suitable form (See Note)	25	40	To be fired in 4 bursts. The gun will be initially layed to engage the centre square of the screen. The firer will be told which gun of the Section he represents. One tap only will be allowed between each burst. The elevating wheel and sights may be used to correct errors in ELEVATION for each of the bursts (See next page)	<i>Object.</i> —To practice the service procedure in the engagement of a specified target and to test the Recruit's ability to produce the regulation Tap. <i>Scoring.</i> Each hit in centre square up to 20=2 points. Each hit in adjacent squares up to 10 each=3 points	100
4	Rapid Application	4-inch Brown Square	25	20	The gun mounted and unloaded with sight at zero and down, will be directed slightly off the target both for elevation and direction. Nos. 1 and 2 in position	<i>Object.</i> —To obtain effective fire on a vulnerable target exposed for a limited period and the practice of M.M.G. drill procedure.	40

PART I—PRELIMINARY—30 YARDS RANGE—continued.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
4 (cont.)					Rounds to be at forward end of belt. Belt box closed but not fastened. On the order to "Commence" the gun will be loaded, sight adjusted and the target engaged in 2 bursts of about 10 rounds each. Time limit=30 seconds	<i>Scoring.</i> Each hit in 4-inch square =2 points	—
5	Surprise (Optional)	4-inch Brown Square	25	20	Gun and gear arranged as for "Take Post", 5 yds. in rear of firing position. Nos. 1, 2 and 3 in position. Rounds to be at forward end of belt. On the order "Commence" the gun will be brought into action and the target engaged in two bursts of about 10 rounds each. Time limit=1 Minute	<i>Object.</i> —As for Practice 4. Scoring (not to count) as for Practice 4	160

NOTES.—1. Where reduced sized Screens (Appx. V) cannot be produced, the Practice can be carried out using any suitable aiming mark with the requisite 4-inch interval marked at each side. A 3-inch square placed centrally over the three points will be the scoring factor.

2. Additional optional Practices will be found in Appendix I.

AMMUNITION.

Practices in Part I .. 140 rounds.

QUALIFICATION. (practices 2, 3 and 4)

80 Points.

Repetitions allowed in order to qualify.

PART II—CLASSIFICATION—OPEN RANGE

Tangent Sight used for all Practices.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Ranging	Plates or patches on stopbutt	300	20	To be fired in bursts of about 10 rounds each	To establish the elevation and point of aim for the gun	—
2	Rapid Application	Small	300	30	Gun unloaded, sight at zero and down. Nos. 1 and 2 in position. Rounds to be at forward end of belt. Belt box closed but not fastened. Position where target will appear, indicated to firer. On the appearance of the target it will be engaged by "Rapid Fire," with 3 bursts of about 10 rounds each. Time limit=30 seconds	Object.—To obtain effect on a vulnerable target exposed for a limited period, and to practice M.M.G. drill procedure  Scoring. Each direct hit inside 4-ft. circle on target=2 points	60
3	Traversing Left and Right	M.G. Screen	300	90	To be fired in 9 bursts. The gun will be initially layed so as to engage the right square. The firer will traverse across the screen and back, so that, with the exception of the left square, all squares have been engaged twice. One tap only will be allowed between bursts. The elevating wheel and sights may be used to correct errors in Elevation	Object.—To practice the engagement of a linear target and to test the firer's ability to produce the Regulation tap.  Scoring. Each direct hit in LEFT square up to 10=2 points. Each direct hit in other squares up to 20 each=2 points	180

PART II—CLASSIFICATION—OPEN RANGE—continued.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
4	Ranging	Plates or patches on stopbutt	500	30	Gun mounted in lowest position (see Lesson 58) To be fired in bursts of about 10 rounds each.	Object.—As for Practice 1	—
5	Fleeting Target	Small	500	40	Gun mounted in lowest position. Gun half loaded, thumbpiece pressed, sight adjusted and down. Nos. 1 and 2 in position. Position where target will appear indicated to firer before Practice. On the appearance of the target it will be engaged by "Rapid Fire," in 2 bursts of about 20 rounds each. Time limit=25 seconds	Object.—Engagement of a fleeting target from a service position, firing approximate service bursts.  Scoring. Each direct hit in 4-ft. circle on target=2 pts.	80
6	Surprise (Optional)	Small	500	30	Gun and tripod placed about 5 yds. in rear of firing position. Tripod on left with legs set for sitting position. Sights at zero and down. Belt box and Com-denser Cam in a convenient position on firing point. Rounds at forward end of belt. Position where target will appear, indicated to firer before Practice. Nos. 1 and 2 in position. (See next page)	Object.—The quick engagement of a surprise target combined with practice in M.M.G. Drill procedure.  Scoring. (Not to count) As for Practice 5	—

PART II—CLASSIFICATION—OPEN RANGE—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
6 (cont.)					On the appearance of the target, the gun will be brought into action and the target engaged by 3 bursts of about 10 rounds each		320

AMMUNITION.

Practices in Part I	140
Practices in Part II	240
	380
	—

CLASSIFICATION. (Practices 2, 3 and 5).

1st Class Vickers Gunner	200 points
2nd " "	120 "
Not qualified " "	under 120
Repetitions allowed in order to reach 2nd Class	
	Classification.

All Practices, except No. 1, will be fired by “Sense of Direction”. DOUBLE ACTION will be used for all Practices.

PISTOL COURSE

PART I—PRELIMINARY

All Practices, except No. 1, will be fired by “Sense of Direction”. DOUBLE ACTION will be used for all Practices.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
0	Introductory	Nil	10	4	Position : Standing. 2 rds. to be fired with each hand at selected area on stopbutt, etc. Firer to return to “Ready” position after each shot. No time limit	To introduce the firer to the firing of service pistol	—
1	Grouping	Fig. 2	15	4	Position: Lying. Deliberate aim, pistol supported by both hands. No time limit	To give the firer confidence in the accuracy of the weapon and to locate possible faults in aiming, holding or trigger pressing. <i>Standard.</i>	Centre of grouping rectangle placed on aiming mark: 3 shots to be within the 16 x 12 inch rectangle
2	Grouping	Fig. 2	10	4	Position : Standing. Either hand used. Firer to return to the “Ready” position after each shot. No time limit	To locate possible faults when firing by “Sense of Direction”. <i>Standard.</i>	3 shots to be within the 16 x 12 inch rectangle irrespective of location on target

PART I—PRELIMINARY—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
3	Application	Fig. 2	5	4	Position : Standing. Fired with the right hand. Firer to return to "Ready", position after each shot. Time limit=2 seconds per shot	To deliver an effective shot by "Sense of Direction". <i>Scoring.</i> Each direct hit in rect- angle=5 points. On remainder of figure=4 points	20
4	Application	Fig. 2	5	4	As for Practice 4 but fired with LEFT hand	As for Practice 4	20
5	Application	Fig. 2	5	4	Position : Standing. Fired with either hand in 2 series of 2 rounds each. Firer to return to the "Ready" position after each series. Time limit=3 seconds for each series	To practice the engage- ment of a target by service methods. <i>Scoring.</i> As for Practice 3	20
28	AMMUNITION	..	..	24	QUALIFIED	Grouping Standard and a score of 30 points.	60

PART II—CLASSIFICATION  
All Practices to be fired by Double Action.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Application	2 Figs. No. 2 on screen or spaced 1 yard apart	5	4	Position : Standing. Fired with either hand in 2 series of 2 rounds each. Firer to return to "Ready" position after each series. Instructor to indicate target to be engaged, before each series is fired. Time limit=2 seconds for each series	Effective fire at service rate against selected target. <i>Scoring.</i> Each direct hit in rect- angle=5 points. On remainder of figure=4 points.	20
2	Application	2 Figs. No. 2 on screen or spaced 1 yard apart	10	4	Position : Kneeling. Fired with either hand in 2 series of 2 rounds each. Firer to return to "Ready" position after each series. Instructor to indicate target to be engaged, before each series is fired. Time limit=2 seconds for each series	Effective fire at service rate against selected target. <i>Scoring.</i> As in Practice 1	20
3	Snapshooting	Fig. 2, Dis- appearing	10	4	Position : Standing. Fired with either hand in 2 series of 2 rounds each. Firer to return to "Ready" position after each series is fired. Time limit=2 seconds for each series	Effective engagement of a surprise target. <i>Scoring.</i> As in Practice 1	20

PART II—CLASSIFICATION—continued.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
4	Rapid	2 Figs. No. 2 on screen or spaced 1 yard apart	10	6	Position : Standing. Fired with either hand in 3 series of 2 rounds and after drawing loaded pistol from case. A shot to be fired at each target in each series. Time limit=4 seconds each series	Effective engagement of emergency targets. <i>Scoring</i> —As in Practice 1. <i>Deuctions</i> —If more than 3 hits on any one figure, deduct highest value of surplus hits	30
5	Rapid (GAS)	2 Figs. No. 2 on screen or spaced 1 yard apart	5	6	Position : Standing, but firer to be wearing respirator. Fired with either hand in 3 series of 2 rounds and after drawing loaded pistol from case. A shot to be fired at each target in each series. Time limit=4 seconds each series	Effective engagement of emergency targets when wearing service respirator. <i>Scoring</i> —As in Practice 1. <i>Deuctions</i> —If more than 3 hits on any one figure, deduct highest value of surplus hits	30

AMMUNITION.

Part I .. 24 rounds

Part II .. 24 "

Suitable additional Practices are given in Appendix I, to be fired when ammunition and facilities permit.

CLASSIFICATION.

1st Class Pistol Shot

2nd " "

Not qualified "

Repetitions allowed, if necessary, to reach 2nd Class standard.

80 points

60 "

under 60 "

SNIPER RIFLE PRACTICES

The following practices are suitable for the training of personnel selected as Snipers, using standard range equipment and targets.

It is essential that rifles are correctly zeroed before commencing the Practices. This can be carried out by using 4 ft. white screen, with a 4-inch central black square, at a range of 100 yards.

No.	Practice	Target	Range	Rounds	Detail	Scoring	H.P.S.
1	Grouping	Small	100	5	Lying. Forearm and wrist rested against suitable cover	1 inch group 25 points 1 1/2 " 20 " 2 " 15 " 3 " 10 " 4 " 5 "	25
2	Application	Small	200	7*	Lying. Forearm and wrist rested against suitable cover. *2 Sighters (not to count) will first be allowed. The target will be patched out before the first scoring shot is fired	As for normal rifle practices	25
3	Sniping Application	Small	200	5	Lying. Forearm and wrist rested against suitable cover. Butt may be in the shoulder, but aim through the telescope will not be permitted until target appears. The target will be exposed 5 times, on signal from firing point, each exposure being for 20 seconds. After each exposure the target will again be raised and the position of the shot shown by a spotting disc. Target is then lowered and patched out	Hits in Bullseye circle only to count for score, but all hits will be marked with spotting discs	25

SNIPER RIFLE PRACTICES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Scoring	H.P.S.
4	Snapshooting	Large Snap Disc	200	7*	Lying. Forearm and wrist rested against suitable cover. Butt may be in shoulder, but aim through telescope not permitted until target appears. *2 Sighters at stationary disc (not to count). 5 Exposures of 5 seconds each on signal from firing point. Target to be raised after each shot with spotting disc inserted, then lowered and patched out before being again exposed. Exposure of target at same position for each shot	Hits in Bullseye circle (12 inch) only to count for score, but other hits will be marked with spotting discs	25
5	Sniping Snapshooting	Fig. 5 with central 4-inch square (bull) and 7-inch square (inner)	200	5	Lying. Forearm and wrist rested against suitable cover. Firer observing through telescope. Limits between which the target may appear, indicated to the firer. On a signal from the firing point the practice will commence, the target being exposed 5 times, each exposure being for 3 seconds. No specific intervals between exposures; intervals, however, should not be less than 5 seconds, nor longer than 30 seconds. Target may be exposed anywhere on a frontage of 5 yards. No marking during practice	Hits in Bull square=5 pts. In Inner square=4 pts.	25

SNIPER RIFLE PRACTICES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Scoring	H.P.S.
6	Application	Small	300	7*	Lying. Forearm and wrist rested against suitable cover. *2 Sighters (not to count) will first be allowed. The target will be patched out before the first scoring shot is fired	As for normal rifle practices	25
7	Selective Application	Small and Large Snap Disc	300	5	The small target will be exposed and will be lowered as soon as a hit is registered in the bull circle; the Snap disc will be raised in its place and will remain stationary, until the expiration of the time limit. Time limit=1 minute from first exposure of Small target Firer, forearm and wrist rested against suitable cover, may be "on aim" when target appears. No marking during Practice	On Small target, hits in Bullseye circle only to count. All hits on Disc to count. Bull=5 Inner=4	25
8	Sniping	Fig. 5	300	5	Lying. Forearm and wrist rested against suitable cover. Firer may be "on aim" before the target is exposed. The target is to be lowered as soon as hit, thus concluding the practice. Target exposed for 1 minute. No marking	Target hit with— 1st shot = 25 points 2nd , , = 20 3rd , , = 15 4th , , = 10 5th , , = 5	25

**SNIPER RIFLE PRACTICES—continued.**

No.	Practice	Target	Range	Rounds	Detail	Scoring	H.P.S.
9	Application	Large	400	7*	Lying. Forearm and wrist rested against suitable cover. *2 Sighters (not to count) allowed	Hits in Bullseye and Inner circles only to count for score	25
10	Application	Large	500	7*	Lying. Forearm and wrist rested against suitable cover. *2 Sighters (not to count) allowed	Hits in Bullseye and Inner circles only to count for score	25

NOTES.—Whenever possible, the cover used for practices should be made up as a loophole, using filled sandbags. When ammunition is available, the Practices should be repeated without the support of cover. The Practices have been basically designed for Rifle No. 3, Mk. I (T), but can also be used for other patterns of service rifles, providing that such rifles have been correctly zeroed.

**AMMUNITION.**

60 Rounds.

**CLASSIFICATIONS.**

Marksman	Sniper	:	:	:	210 points
1st Class	"	:	:	:	175 "
2nd	"	:	:	:	150 "

**ANTI-AIRCRAFT PRACTICES**  
(RIFLE OR L.M.G.)

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Direct Attacker (Rifle)	A.A. Attacker	10	10	Fired by a party of 3 riflers. "Standing—Charge magazines"—500 — Aircraft Action." Instructor indicates a specific target, e.g., "Lower," "Upper," "Left," or "Right," and orders, "Aircraft Front, Rapid—Fire". After 2 or 3 rounds have been fired, he orders "Stop", indicates another target and orders "Rapid Fire", repeating the above procedure until all 4 targets have been engaged. Time limit for each series of shots will be 10 seconds	On conclusion, the results should be analysed. With rifle grouping ring on centre of target, all shots should be within the 12-inch ring. Those within the 4-inch ring may be considered effective. No scoring	—
2	Direct Attacker (L.M.G.)	A.A. Attacker	10	8	L.M.G., mounted on A. A. mounting, loaded, change lever at, "Safe", change (Bren), sights at 500. No. 1 in position, holding weapon at safe angle. "Aircraft Action." Instructor indicates specific target, e.g., "Lower", etc., and orders "Aircraft Front, Rapid—Fire". Rounds to be fired in 1 burst. Time limit=5 seconds from order "Fire".	On conclusion, the results should be analysed. With rifle, grouping ring on centre of target, all shots should be within the 12-inch ring. Those within the 4-inch ring may be considered effective. No scoring. NOTE.—When using Bren L.M.G. the centre of the grouping ring will be placed 1 inch right of centre of target	—

ANTI-AIRCRAFT PRACTICES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
3	Converging Attack (L.M.G.)	A.A. Attacker	10	32	Weapon, etc., arranged as for Practice 2. Ammunition organised in 4 magazines, each containing 8 rounds. After first target has been engaged the instructor will order "Stop", indicate another target at a different level, and order "Rapid—Fire", repeating the procedure until all 4 targets have been engaged. Time limit=40 seconds from order "Fire". No. 2 required, to assist with magazines	On conclusion, the results should be analysed. With rifle grouping ring on centre of target, all shots should be within the 12-inch ring. Those within the 4-inch ring may be considered effective. NOTE.—When using Bren L.M.G. the centre of the grouping ring will be placed 1 inch right of centre of target	—
4	"Hosepine" (to be fired where facilities exist) (L.M.G.)	Balloons or towed Drogue targets	—	40 (in 2 mags.)	When an area has been established and passed in accordance with the regulations as suitable for A.A. firing with .303 inch ammunition, good practice in observing the stream of tracer ammunition can be given by firing at hydrogen-filled balloons. The direction of the wind must be ascertained before firing begins and balloons released so as to give suitable crossing or rising targets. The limits of the permissible arcs of fire must be clearly marked and an officer, W. or N.C.O., detailed to each gun to stop firing when the target passes the danger limit. Tracer ammunition for this purpose will be used in the proportion of 1 to 3 of Mk. VII. The Practice can be fired at towed drogues if the necessary arrangements can be made with the R.A.A.F. for towing.	—	—

## PRACTICES FOR SUB-MACHINE GUNS.

The following Practices are suitable for the training of personnel in the use of the above weapon, with the minimum expenditure of Ammunition.

Although Ammunition allotment may not permit of every man firing the complete series of Practices, all should fire Practice O.

Those not being exercised in the remaining Practices should be present whilst they are being fired.

As further supplies of Ammunition for training become available the number of rounds in practices set out below should be increased proportionately.

### O INTRODUCTORY.

Range—20 yards (or as available).

Target—Selected area on stopbutt.

Rounds—8.

Detail—1 single round fired from the shoulder position.

1	"	"	"	"	"	waist	"
1	short burst	"	"	"	"	shoulder	"
1	"	"	"	"	"	waist	"

The weapon's fire control lever being set to produce the desired type of fire.

Object—To introduce the soldier to the firing of a sub-machine gun, using both types of fire and firing positions.

### 1. SENSE OF DIRECTION.

Range—20 yards.

Target—Fig. No. 2.

Rounds—4.

Detail—Firer, with weapon loaded, fire control lever set at "Automatic" and held at the "waist" position, facing the target. On the order "Fire," he engages the target, endeavouring to produce "Single Shots." No time limit.

Scoring—3 points for each direct hit on the Figure.

Object—To develop the facility of producing Single Shots with the control set for "Automatic" fire, and to establish his Sense of Direction with the weapon, when held at the "waist" position.

## 2. INSTINCTIVE SNAPSHOTTING.

Range—20 yards.

Target—Fig. No. 2—disappearing if possible (see Note).

Rounds—4.

Detail—Firer, with weapon loaded, fire control lever set at "Automatic" and held at the "waist" position, facing the direction in which the target will appear. On the appearance of the target (or on the order "Fire"—if target is stationary) it will be engaged, the firer endeavouring to produce a Single shot by manipulation of the trigger and using "sense of direction" for alignment of the weapon. Exposure of target = 1 second for each shot.

Scoring—As for Practice 1.

Object—To practise the instinctive alignment of the weapon when held at the waist and control of the trigger in the production of single-round fire.

## 3. AUTOMATIC ALIGNMENT.

Range—20 yards.

Target—Fig. No. 2—disappearing if possible (see Note).

Rounds—4.

Detail—Firer and weapon—as for Practice 2.

On the appearance of the target (or on the order "Fire"—if target is stationary), the weapon will be brought to the "shoulder" position, automatically aligned and fired, the firer endeavouring to produce a Single shot by control of the trigger on each occasion. Exposure = 2 seconds for each shot.

Scoring—As for Practice 1.

Object—To practise the instinctive and automatic alignment of the weapon on a surprise target and its engagement with a minimum expenditure of Ammunition.

## 4. EMERGENCY.

Range—20 yards.

Target—Fig. No. 2—disappearing if possible (see Note).

Rounds—3.

Detail—Firer, with weapon loaded and fire control set at "Automatic," standing, facing the direction in which the target will appear. The weapon will be held with

both hands at the grips, muzzle upwards in a position similar to the "High Port," except that the right elbow and butt can be in contact with the right side of the body. On the appearance of the target (or on the order "Fire"—if the target is stationary), it will be engaged by the firing of the stated rounds, in one burst from the "waist" position. Exposure of target = 2 seconds.

Scoring—As for Practice 1.

Object—To practise the engagement of an emergency target encountered at close range.

NOTE.—The best value will be obtained from the above Practices when the Figure No. 2 can be exposed from behind cover, e.g., Range Mantlet, Trench, etc., where the firer has no definite prior indication of the target's position. Safety of the personnel manipulating the targets is, however, of paramount importance.

H.P.S. Practice 1	12
2	12
3	12
4	9
	—
Total	45

A total of 33 can be regarded as a first-class performance.

## MORTAR PRACTICE.

Mortar firing differs from the firing of the other weapons in the unit in that it cannot be regarded as a range course, nor is it a test for individual members of the mortar detachment.

It is designed to practise the fire controllers and their understudies in the engagement of targets with H.E. and in the method of producing a smoke screen.

Before service bombs are fired from the 3-inch Mortar the personnel should have been exercised in firing dummy bombs.

The allotment of 3-inch Mortar Ammunition is sufficient to allow of the procedure of the engagement of a point target or area with H.E., being illustrated. The smoke allotment allows the fire controller to decide accurately on the position of his point, or points, of origin.

The allotment of 2-inch Mortar Ammunition is sufficient to allow of selected personnel being exercised, both with H.E. and smoke.

With either type of Mortar, the firing of service bombs should (apart from necessary demonstrations) invariably be associated with a definite tactical situation or problem, and designed to illustrate the correct application of the weapon's characteristics.

Personnel not directly concerned with the operation of the weapon or its control should be placed in such a position that they can observe the procedure and appreciate the results obtained.

### Safety Precautions at the Mortar Position.

(i.) At all practices a safety officer will be detailed, whose duty it will be to ensure all Mortars are laid safely as regards line and elevation. He will observe movement of any aircraft in the vicinity, and, if aircraft are flying so as to approach the line of fire, he will delay the firing until the area is clear. (Aircraft flying at over 2500 feet can be considered safe.)

(ii.) In addition to the safety officer, an N.C.C. will be detailed to each Mortar. His duty is to ensure that each bomb is correctly prepared (in the case of 3-inch Mortar—that the correct charge, as ordered, is arranged), and that the safety cap is removed before the bomb is placed in the barrel.

He will watch for "blinds" and report immediately to the controlling officer should one occur and endeavour to determine its approximate location. This will entail him watching the flight of each bomb fired.

APPENDIX I—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES  
A—RIFLE  
Bayonets to be fixed for all Practices by TRAINED SOLDIERS of units armed with the bayonet.

No.	Practice	Target	Rounds	Detail	Remarks	H.P.S.
1	Grouping 100/25		5	Lying	1 inch group = 25 points 2 " " = 20 " 3 " " = 15 " 3 " 1 wide = 10 "	25
2	Application	Small 100/25	5	Lying		25
3	Application	Small 200/25	5	Lying		25
4	Snapshooting	Small 200/25	5	Lying. Firer may be in aiming position when target appears. Time limit=5 seconds for each shot	Bullseyes and Innings only to count for score	25
5	Snapshooting	Large Snap Disc 200/25	5	Lying. Butt of rifle in contact with the ground until the target appears. Time limit=5 seconds for each shot		25
6	Emergency	Small 200/25	5		Pouch need not be buttoned after withdrawal of charger	25.

APPENDIX I—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.*

No.	Practice	Target	Rounds	Detail		Remarks	H.P.S.
7	Rapid	Small 200/25	5	Lying, but firer will be standing "At Ease" until the target appears or the command "Fire" is given. Rifle loaded, sight adjusted, safety catch applied. Time limit=30 seconds			25
8	Emergency (Gas)	Small 200/25	5	Conditions as for Practice 6. Respirator to be adjusted before Practice. Time limit=40 seconds			25

NOTE.—When conditions permit and standard of training is satisfactory, all the above Practices may be fired with the Respirator adjusted. Position of the firer may also be modified; e.g., Sitting or Kneeling.

B—LIGHT MACHINE GUN  
(BREN)

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Ranging (Single Rounds)	2-inch Brown Square	25	2	Lying—gun rested on suitable cover	—	—
2	Rapid Application (Single Rounds and Automatic)	Small 200/25 or 6-inch Brown Square	25	12	Lying—gun rested on suitable cover. Gun loaded, sight adjusted and firer in position with butt in contact with the ground. On the order "Fire", the firer will engage the target with 2 single rounds, then change to "Automatic" and continue with bursts of about 4 rounds at the "Rapid" rate. Time limit=20 seconds	Scoring each direct hit inside 6-inch circle on target=2 points	24
3	Ranging (Automatic)	2-inch Brown Square	25	8	Lying, using bipod. To be fired in 2 bursts	—	—
4	Action and Distribution (Automatic)	Brown Strip 10 inches long by 3 inches deep, divided into 5 rectangles 2 inches wide	25	20	Ammunition arranged in 2 magazines (12 in one; 8 in the other). Firer lying behind gun, 5 yds. in rear of firing point, with magazines in pouch equipment.*	Scoring each rectangle containing: 1 direct hit : : 4 pts. 2 " hits : : 5 " 3 " " : : 6 " 4 or more, " : : 7 "	35

APPENDIX 1—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued*.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
<sup>4</sup> <i>(cont.)</i>					Sights at zero. On the order "Commence" the gun will be brought into position (as in Practice 3) and the target engaged, fire being distributed in 5 bursts so as to engage all portions of the target. Time limit=1 minute.		
<sup>5</sup>	Fleeting Target (Automatic)	Small 200/25 or 6 inch Brown Square	25	12	Firer in position at firing point (as in Practice 3). Gun loaded, sight adjusted, change lever at "Safe" and butt in contact with the ground. On the order "Fire" the target will be engaged by "Rapid" fire in not more than 3 bursts. Time limit=15 seconds	Scoring Each direct hit inside 6-inch circle on Target=2 points.	24

Where considered desirable, the Practices laid down for the Rifle can be adapted and fired with the Bren, using "Single Round" method of fire.

B—LIGHT MACHINE GUN  
(LEWIS)

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Ranging	As for Bren Practice 1	25	8	Lying, gun rested on suitable cover.	—	—
2	Rapid Application	As for Bren Practice 2	25	12	Lying, gun rested on suitable cover. Gun loaded, sight adjusted and firer in position with butt on the ground. On the order "Fire" the firer will engage the target at the "Rapid" rate in not more than 3 bursts. Time limit=15 seconds	Scoring As per Bren Practice 2	24
<sup>3</sup>	Action and Distribution	As for Bren Practice 4	25	20	Ammunition arranged in 2 magazines (12 in one; 8 in the other). Nos. 1 and 2 in position with gun, 5 yds. in rear of firing point. Magazine on gun but gun not loaded. Sights at zero. On the order "Commence" the gun will be brought into position on the firing point and the target engaged (using the bipod), fire being distributed in 5 bursts, so as to engage all portions of the target. Time limit=1 minute.	Scoring As for Bren	35

C—MEDIUM MACHINE GUN

(VICKERS)

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Single Shot Grouping	M.G. Spotted Target	25	5	To test accuracy of aim, combined with holding, etc. The gun's elevation and direction will be slightly disturbed by the Instructor after each shot is fired. Standard = 3-inch group	—	—
2	Single Shot Consistency of Tap	M.G. Spotted Target	25	20	To practice consistent tapping, 20 rounds to be fired in 2 traverses of 10 single shots each, using the horizontal rows of bullseyes, one to the right; the other to the left. The firer must observe his target and not use his tangent sight (which, however, will remain raised) except for the initial lay at the commencement of the practice, and as ordered during it, should the instructor consider it necessary owing to the bad performance of the traversing action, etc. Sequence of actions of firer will be :— Fire, Load, Tap, Fire, etc.	—	—

APPENDIX I—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—continued.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
3	Single Shot Tapping Right and Left	M.G. Spotted Target	25	5	To practice automatic tapping right and left. Any of the vertical, isolated or oblique bullseyes may be used, a 4-inch point being established each side. The firer will be told which gun of the section he represents. The tangent sight will not be used except for the initial lay, but will be kept raised throughout the practice. Sequence of actions of firer will be as in Practice 2	—	—
4	Single Shot Traversing	M.G. Spotted Target	25	14	To practice traversing an oblique target (as per Lesson 52). The oblique rows of bullseyes will be used. One series of 7 rounds from left to right; the other from right to left. Sequence of actions of firer will be :— Fire, Load, Tap, Elevate (or Depress), Fire, etc.	—	—
5	Single Shot Controlled Corrections Direct Fire (Elevation)	M.G. Spotted Target	25	5	To practice No. 1 in relaying the gun after altering the sights in obedience to a correction in elevation. The firer is ordered to lay with correct sighting elevation to hit a bottom bull of	—	—

**APPENDIX 1—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.***

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
5 (cont.)					a vertical strip. The following orders will then be given:— “Fire.” “Stop—Up 250—Go on.” “Stop—Up 350—Go on.” “Stop—Down 150—Go on.” “Stop—Down 450—Go on.” The instructor will watch and check any failure to relay. The above orders should result in the shots striking the 1st, 2nd, 4th, 3rd and 1st bulls respectively	—	—
6	Single Shot Controlled Corrections. Indirect Fire (Elevation). (a) Clinometer and Bar Foresight Equipment	M.G. Spotted Target	25	5	To practice No. 1 in re-aligning his line of sight on the aiming post, after turning the handwheel, in obedience to a correction for elevation. The firer is ordered to lay with the correct sighting elevation to hit the 2nd bull from the bottom of a vertical strip. The instructor attaches the bar foresight tells the firer the bottom bull represents his aiming post and to align his sights on it, by moving the tangent sight slide.	—	—

**APPENDIX 1—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.***

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
6 (cont.)					The following orders will then be given:— “Fire.” “Stop—Up 1 degree— Go on.” “Stop—Down 45 minutes— Go on.” “Stop—Up 30 minutes— Go on.” “Stop—Down 15 minutes— Go on.”	—	—
(b) Dial Sight Equipment	M.G. Spotted Target			5	The above orders should result in the shots striking the 2nd, 6th, 3rd, 5th and 4th bulls respectively. An aiming point will be planted in a suitable position with relation to the target, before the gun is loaded. The firer is ordered to lay (using the tangent sight) with the correct sighting elevation to hit the 2nd bull from the bottom of a vertical strip. The collimator is then adjusted on to the aiming post. Further details as for (a) above	To practice No. 1 in re-aligning his line of sight on the aiming lamp, after turning the handwheel, in	—
7	Single Shot Controlled Corrections.	M.G. Spotted Target	25	5	—	—	—

APPENDIX 1—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
7 (cont.)	Night Firing (Elevation) Clinometer and Bar Foresight Equipment				obedience to a correction for elevation. The firer is ordered to lay with the correct sighting elevation to hit the 2nd bull from the bottom of a vertical strip. The instructor attaches the bar foresight and night sights, tells the firer the bottom bull represents his aiming lamp and to align his night foresight (normal aim) on it, by moving the tangent sight slide. Further details as for (a) above		
50	Single Shot Controlled Corrections Indirect Fire (Deflection) (a) Clinometer and Bar Foresight Equipment	M.G. Spotted Target	25	4	To practice No. 1 in relaying on the aiming post, after adjusting the bar foresight in obedience to a correction for deflection. A central bull in the top horizontal row will be used. The firer is ordered to lay with the correct sighting elevation to hit the selected central bull. The instructor attaches the bar foresight, tells the firer the equivalent bull in the bottom row represents the aiming post and to align his sights on it		

APPENDIX 1—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
8 (cont.)					by moving the tangent sight slide. The following orders are then given :— “Fire.” “Stop—Right 30 minutes —Go on.” “Stop—Left 1 degree— Go on.” “Stop—Right 30 minutes —Go on.” The bulls being 15 minutes apart, the position where the shots should strike is easily determined		
51	(b) Dial Sight Equipment	M.G. Spotted Target	25	4	An aiming post will be placed in a suitable position with relation to the target, before the gun is loaded. The bottom hori- zontal row should be used. The firer is ordered to lay (using the tangent sight) with the correct sighting elevation to hit a selected central bull. The collimator is then adjusted on to the aiming post. Further details as in (a) above.		

APPENDIX 1—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
9	Immediate Action	Any suitable with definite aiming mark	25	30	To practice rectification of stoppages using ball ammunition by day. Belts will be prepared with 6 stoppages arranged for each firer, <i>e.g.</i> , separated in case, misfire, bad fault in feed, 2 successive misfires, bulged round, empty pocket. Order “Fire” is given. The gun will be knocked off aim by the instructor as each stoppage occurs. Accuracy in relaying will be judged from the size of the complete group.	—	—
	(a) By day				(i) Before the gun is loaded, the following procedure will be carried out:—The bar foresight and night sights will be attached to the gun and an aiming lamp planted centrally below the screen. The gun will be laid (using the tangent sight and a torch) on the centre of the screen. The firer will then adjust his line of sight on to the lamp by movement of the tangent sight slide. (ii) The gun will then be loaded with the prepared belt and the order “Fire.”	“Thick rim” stoppages are not to be included.	
	(b) By Night Clinometer and Bar Foresight Equipment	Plain Screen	25	30			

APPENDIX 1—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
9 (cont.)					given, the gun being knocked off aim by the instructor, as each stoppage occurs.	NOTE.—Where facilities for night practice are not available, the firer will be blindfolded after the preliminary arrangements as in (i) above are completed. In this case, the gun will not be knocked off aim by the instructor as the stoppages occur	
53	(c) By Night Dial Sight Equipment	Plain Screen	25	30	(i) Before the gun is loaded, the following procedure will be carried out:—The dial sight will be attached and the aiming lamp planted in a suitable position with relation to the target. The gun will then be laid (using the tangent sight and a torch) on the centre of the screen. The range drum will be set to 450 and the bubble levelled by means of the angle of sight drum. The firer will then adjust the collimator on to the aiming lamp. (ii) Further action—as in (iii) above		

## APPENDIX I—PISTOL—ADVANCED PRACTICES

All Practices fired by DOUBLE ACTION and Sense of Direction method.

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
1	Duelling	Fig. 2 (disappearing if possible)	15	4	Either hand used. To be fired by a pair of firers. Firers in "Rest" position opposite their respective targets. On command "Fire" (or on the appear- ance of the target) a round will be fired. The first effective hit ( <i>i.e.</i> , in the 16 x 12 inch rectangle) will conclude the practice. Should either firer secure a hit on the remainder of the figure, the series will be repeated, the unsuccessful firer using the other hand as a penalty. An umpire for each firer is desirable.	—	—
2	Surprise	Fig. 2	10	4	Either hand used. Firers with loaded pistol buttoned in case, opposite their respective targets but facing the reverse direction. On the order "Fire", firers will turn about, draw pistols, and then engage their targets with Rapid fire. Time limit=5 seconds	<i>Scoring.</i> Hits in rectangle=5 points. On remainder of figure=4 points	—

## APPENDIX I—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	Remarks	H.P.S.
3	Emergency	Fig. 2	10	4	Firers, in "Ready" position opposite their respective targets. On the order "Fire", a series of 2 rounds will be fired, the pistol changed to the left hand and a further series of 2 rounds fired. Time limit=5 seconds	<i>Scoring.</i> As for Practice 2	
					The following Practices may be fired where target equipment and facilities are available.		
4	Moving Target	Fig. 2 on sledge (or carried along the marker's gallery)	10	4	Firer in "Ready" position (either hand). 2 rounds will be fired on each run of the target. On a signal from controlling officer, the target will be drawn across a frontage of 5 yds. at a walking pace. The limits through which the target will move should be clearly indicated—any shots fired outside these limits not to count	<i>Scoring.</i> As for Practice 2	
5	Defence	2 Figs. 2 on sledge	15 to 5	4	Firer in "Ready" position (either hand) facing targets at 15 yds. distance. On a signal from the controlling officer, the targets will be drawn forward at a smart run to a position approx. 5 yds. from the firer. Time limit=4 seconds	<i>Scoring.</i> As for Practice 2	

APPENDIX 1—ADDITIONAL PRACTICES SUITABLE FOR 30 YARDS RANGES—*continued.*

No.	Practice	Target	Range	Rounds	Detail	H.P.S.
6	Attack	Fig. 2 on sledge Fig. 2 stationary	20 to 5	4	Firer in “Ready” position (either hand) facing targets at 20 yds. distance. On a signal from the controlling officer, the Figure on the sledge will be drawn forward at a smart run to a position approx. 10 yds. from the firer. The firer will fire 2 rounds at this charging figure then run forward 10 yds. and fire the remaining 2 rounds at the stationary figure. Time limit = 6 seconds	Scoring. As for Practice 2.  NOTE.—(Safety). If more than one firer is being exercised at the one time, the controlling officer will ensure, as far as possible, that all firers advance together. In any case, a reasonable interval should be arranged between firers in the one detail

## APPENDIX II

### INDIVIDUAL BATTLE PRACTICES. RIFLE.

The following will be found suitable for production on classification ranges, using normal target equipment and range facilities.

#### 1. “BEST SERVICE SHOT.”

**Target.**—Any available, e.g., Large Snap Discs, Figs. 3 or 4, Tiles or Falling Plates (1 per firer).

**Range.**—250 (approx.).

**Rounds.**—5 per firer.

**Details.**—Firers (rifles unloaded, bayonets fixed, safety catch applied and charger securely buttoned in pouch) in lying position about 30 to 50 yards in rear.

Individual targets indicated to firers. On command “Commence” (or on re-exposure of targets), firers advance rapidly to indicated line, assume position, load, adjust sights and engage their respective targets. Empty pouch need not be buttoned.

First target hit concludes Practice. Where targets are held by markers or housed in frames, all targets lowered as soon as first target is hit. Careful control in marker’s gallery essential.

Where falling plates or tiles used.—Umpire at firing point orders “Stop” as soon as first target is hit.

Personnel attempting to open bolt, etc., whilst advancing, to be disqualified.

Ties or finals, decided by repetition of Practice or by the engagement of two targets by each finalist; in such cases, 10 rounds are allotted.

**Lessons.**—Quick and clean manipulation of rifle.

Quick assumption of correct firing position.

Judgment and control.

Marksmanship.

#### 2. “PAIRS.”

**Target.**—Any available, e.g., Large Snap Discs, Figs. 3 or 4, Tiles or Falling Plates (1 per firer).

**Range.**—250 (approx.).

**Rounds.**—5 per firer.

**Details.**—Firers (as in Practice 1), organised in separate pairs. An Umpire allotted to each pair.

Targets arranged in pairs, one yard between targets, with an interval of from 5 to 20 yards between pairs, according to range facilities. Firers engage the pair of targets opposite their position (representing their opponents). As a target is hit it is lowered (if operated from marker's gallery), and the appropriate member of the opposing pair is declared "dead" by the umpire concerned. (The umpire watches the effect on the targets engaged by the opposing pair.)

Practice concludes when both targets of a pair have been hit. Should the survivor of a pair expend his Ammunition he may utilise the rifle and/or the unexpended ammunition of his "dead" partner.

Careful control is necessary, both at the firing point and butts (if operating targets in marker's gallery) to ensure that targets are lowered as soon as hit and to ensure fairness.

**Lessons.**—As for Practice 1 and initiative, e.g., concentration on target representing most formidable opponent.

### 3. INSTINCTIVE SHOOTING.

**Target.**—Figs. 2 or 3 (1 per firer).

**Range.**—50.

**Rounds.**—5 per firer.

**Details.**—Firers, standing, rifle loaded, bayonet fixed, held in any suitable position (butt not to be in shoulder). Position of feet, etc., as desired.

Targets exposed 5 times. Each exposure 1 second. No specific interval between exposures. Targets exposed approximately in same position each time. No marking until conclusion.

As target appears, firer produces a shot by instinctive shooting, i.e., butt into shoulder, rifle aligned by sense of direction and trigger pressed simultaneously with the pointing of the rifle at the target, both eyes remaining open.

Ties or finals decided by repetition of practice.

**Lessons.**—Control of rifle. Automatic actions. Control of trigger release. Speed.

### 4. "EMERGENCY RAPID."

**Target.**—Figs. 2 or 3 (2 per firer).

**Range.**—50.

**Rounds.**—5 per firer.

**Details.**—Firers (as in Practice 3).

Targets exposed for 8 seconds. On appearance of targets the firers will engage them with rapid fire by instinctive shooting, firing 2 shots at each figure.

Ties—decided by repetition of practice, with reduction of exposure to 6 seconds.

**Lessons.**—As for Practice 3 and counting of rounds fired.

### 5. "ATTACK."

**Target.**—Figs. 2 or 3 (1 per firer).

**Range.**—250 to 50.

**Rounds.**—5 per firer.

**Details.**—Firers, rifles loaded, bayonets fixed, safety catches applied, in lying position at 250. Ordered to advance. On appearance of targets they adopt the position ordered and fire 1 round, resuming the advance on the disappearance of the targets.

Controlling officer, moving in rear of firers, will specify the position to be adopted before signalling for appearance of targets. The positions ordered to include kneeling and sitting.

Two lines of bayonet sacks will be included in the arrangements. The first about 200 yds. from the targets, the second being between 100 and 50. Appearance of the targets should be so arranged that they are exposed shortly before and after the bayonet lines are engaged by the firers (except in the case of the first exposure, which should occur shortly after the advance is commenced).

Careful control is essential for safety. Reasonable intervals should be arranged between bayonet sacks. Application of the safety catch after firing must be insisted on.

Targets will be exposed each time in the same place and for a period of 5 seconds on each occasion. Each bayonet sack is fitted with a central 3-inch paper disc. Hits on figures or bayonet discs of equal value.

**N.B.**—It will be found more satisfactory if control of target exposure is effected by an appropriate signal from the controlling officer with the advancing troops to the telephonist on the range firing point used.

**Lessons.**—Control of weapon. Marksmanship. Use of bayonet. Quick assumption of indicated firing positions.

#### 6. "AMBUSH."

**Target.**—2 Figures, No. 6: 2 Large Targets, reversed in frames and about 50 yards apart.

**Range.**—250 (approx.).

**Rounds.**—5 per firer.

**Details.**—A pair of firers are placed in a suitable position facing the target area, and are informed of the situation as under:—"You are to ensure that an enemy patrol, which has succeeded in penetrating our locality, does not get back. Their most direct route is across that open area between those two large rocks (reversed targets), and they will very probably use that route. This is the only position you can reach in the time available. The enemy patrol will be represented by figure targets, which will act as naturally as can be expected. You have 3 minutes now to make your plan. Let me know when you are ready."

Commencement of Practice (Signal from firing point):—

(a) Stealthy exposure of portion of head of one Figure No. 6, from behind the right large target (as if viewing the area). Limit of exposure = 10 seconds.

Should a shot be fired at this stage the Practice is concluded.

(b) Withdrawal of head, followed immediately by emergence from behind cover of both Figures No. 6, moving as in single file, at a reasonable walking pace.

Should a shot be fired before the leading figure reaches the centre of the open area, both Figures No. 6 (if not hit) turn about and race back to cover. Practice is concluded.

(c) Continued movement of targets across open area.

Should a shot be fired after the leading figure passes the centre of the open area, both Figures No. 6 (if not hit), race forward to cover. Practice is concluded.

#### Points for Discussion on Conclusion of Practice.

Preliminary arrangements by firers—loading, estimation of range, wind allowance, etc.

Plan to be followed, including prior appreciation of probable enemy action if fired at.

Action during exercise. Results obtained.

**NOTES.**—1. Whilst it will only be possible to exercise one pair of firers at a time, other selected pairs may be placed in a position where they cannot observe the procedure and exercised in their turn. Remainder of personnel being placed so as to observe all actions, etc., of those being exercised.

2. Prior rehearsal of marker's actions is desirable. Movement of targets must be as natural as possible.
3. Targets to fall when hit.

**Lessons.**—Initiative. Marksmanship. Collaboration.

#### BREN.

#### 1. "BEST SERVICE SHOT."

**Target.**—As for Practice 1 (Rifle).

**Range.**—As for Practice 1 (Rifle).

**Rounds.**—5 per firer.

**Details.**—L.M.G. (sight at zero, empty magazine and 5 loose cartridges) in position on firing point.

Firers in lying position, about 50 yards in rear.

Individual targets indicated to firers (then lowered, if being exposed from marker's gallery).

On order to commence (or on the reappearance of the targets) firers advance to the firing point, insert the rounds into the magazine, load, etc., and engage their respective targets (Single Rounds).

Action of targets—as for Practice 1 (Rifle).

**Lessons.**—Manipulation of weapon. Marksmanship. Control. Speed.

#### 2. "PAIRS."

**Target.**—2 Large Snap Discs (per L.M.G.).

**Range.**—250 (approx.).

**Rounds.**—20.

**Details.**—Firers in position with L.M.G. and magazine containing 5 rounds in pouch equipment (or alongside L.M.G.). Sight at zero. No. 2, 5 yards in rear, with 3 chargers and an empty magazine. Umpire with each firer. Individual targets indicated to firers (then lowered, if being manipulated from marker's gallery).

On the order to commence (or on the reappearance of the targets) firers load and engage their respective targets, whilst No. 2 commences to fill the 15 rounds into the magazine. As a target is hit it will be lowered and the umpire will "kill" the individual represented by that target, the survivor taking over, e.g., should No. 1 be "killed" No. 2 will come to the L.M.G., bringing with him the partly-filled magazine and carry on the fight. Should No. 2 be "killed" No. 1 will have to obtain the magazine from his position. Should No. 2 succeed in loading the 15 rounds into the magazine before No. 1 becomes a casualty, he will bring the magazine to the gun and remain there to assist No. 1. Practice concludes when both targets of a pair have been hit. Careful control of targets and supervision by Umpires necessary to ensure fairness.

Lessons.—Marksmanship. Quick handling. Initiative.

### 3. "SURPRISE."

Target.—Large Snap Disc and L.M.G. Screen.

Range.—250 (approx.).

Rounds.—28.

Details.—Firer with L.M.G. (28 loose cartridges and an empty magazine) in position at selected firing point.

Barrel removed as for cleaning.

Position where targets will appear, indicated to firers.

The Snap Disc will be exposed. On its appearance, firers will assemble the barrel, load the magazine, and engage the target, which will be lowered as soon as hit, and the L.M.G. screen raised immediately. The screen will be engaged, and will be lowered as soon as a hit is registered in each of the 5 scoring rectangles. Hits on screen only to count for score.

Practice concludes when both targets allotted to a firer have been lowered. Either method of fire may be utilised against the Snap Disc, but "Automatic" must be used against the L.M.G. screen.

Should no firer succeed in lowering both targets, the winner will be decided by the number of rectangles hit. If an equal number have been hit—by the number of hits. If still a tie—by the number of rounds expended against the Snap Disc.

Lessons.—As for Practice 2.

### VICKERS.

The following Practice will be found suitable for use on either the 30 yards or Open Range. It will normally be carried out using a section of 2 guns, but may, if necessary, be utilised for the training of an individual gun team.

#### "SURPRISE."

##### (a) OPEN RANGE.

Target.—M.G. Screen (20 ft. x 3 ft.).

Range.—600.

Rounds.—50 per gun.

Details.—Gun mounted about 20 yards in rear of selected firing point. Barrel casing empty, filling and emptying plugs open. Condenser tube removed. Lock removed and stripped down. Muzzle attachment and Muzzle Cup removed. 50 loose rounds, empty belt and box, and filled Condenser Can, in vicinity of gear. Nos. 1, 2 and 3 lying down in vicinity of their stores. Sec. Comd. in position on firing point. Position where target will appear, indicated to him.

On appearance of the target:

No. 1 will assemble the lock and replace all parts of the gun.

No. 2 will fill the barrel casing with water and attach condenser tube.

No. 3 will load the rounds into the belt and pack the belt into the box.

When either of the above numbers have completed their above duty he may assist the remainder. When the gun is completely ready, S.P. case and belt box closed and condenser cap screwed on, the team will bring the gun and gear into action on the firing point as a "3-man load."

When both guns of a section are in action, the Sec. Comd. will engage the target, ordering "Right and Left 1 Tap."

Each gun will be limited to 2 bursts. The first burst being applied centrally to the target; the second, following a regulation tap in the requisite direction according to the number of the gun.

Scoring.—Hits on screen count 1 point each in centre, right and left scoring squares only.

Time Factor.—Average time of competing sections determined. Taken from appearance of target until 2 bursts are fired by guns. Allow 1 point for every 5 seconds under average time.

### (b) 30-YARDS RANGE.

**Target.**—Landscape target, with sky screen for each gun.

**Rounds.**—20 per gun.

**Details.**—The guns must first have been checked for zero and harmonised by the No. 1 concerned.

Gun, gear and personnel arranged as for "A" above. Target indicated to Sec. Comd. Practice commences on order "Go." Procedure as in "A" above.

**Scoring.**—3-inch square placed centrally over target ordinate (harmonised height above target), and over points at 4-inch interval each side. Hits in squares to count 1 point each. Time factor as for "A" above.

**Lessons.**—Team work. Quick handling. Fire control. Fire Discipline. Initiative.

**NOTE.**—The Sec. Comd. must remain on the firing point, and not interfere with the actions of the gunners assembling the gun, etc. He must not commence his fire order until both guns are on the firing point and loaded.

### ADDITIONAL INDIVIDUAL BATTLE PRACTICES.

The following practices should, wherever possible, be staged on a field firing area in order that personnel being exercised are not assisted by the normal range layout.

Practices suitable for production on the normal Classification Range and using standard range equipment, have been included in the Range Courses Pamphlet, as a guide to Commanding Officers, for use when a field firing area is not available.

The following are examples of suitable Practices for production on a field firing area. It may be difficult to organise scoring, but men should always be told, and if possible see for themselves, the number of hits they have obtained, and also be criticised for their use of ground, cover and the observation of all points of elementary training.

### PRACTICE 1.—FIRING AND OBSERVING.

**No. of rounds.**—5.

**Targets.**—Collapsible; iron falling plates are the ideal target, tiles or bricks, 5 for each firer, placed at irregular distances and intervals.

**Range.**—Between 200 and 300 yards.

**Lessons.**—Mutual assistance. Observation of fire. All points of weapon training.

**Method of conducting.**—Men work in pairs, under battle conditions, as firer and observer, changing round.

**Points of criticism.**—Points of elementary training. Observation of fire. Observation must be exact.

**General notes.**—It is an advantage if the plates can be concealed by bushes, etc. These may be pulled away by strings as required. This device will give exercise in quick observation.

### PRACTICE 2.—ENDURANCE AND QUICK FIRING.

**No. of rounds.**—5.

**Targets.**—Any suitable figure target, preferably Fig. 4, exposed over or round a piece of cover.

**Range.**—About 200 yards.

**Lessons.**—Concentration. Quick, accurate shooting.

**Method of conducting.**—The targets will be exposed five times over a period of five minutes. Each exposure of five seconds. The last exposure to be in the last half minute. Two exposures to be in quick succession, i.e., three seconds interval. A small pit or suitable piece of cover for the marker is required.

**General notes.**—The firer should be given a small area of ground to keep under observation and the targets exposed at different places.

### PRACTICE 3.—ATTACK.

**No. of rounds.**—10.

**Targets.**—Two figures 2 and two figures 4 (or other suitable figures) per firer.

**Range.**—From 400 to 200 yards.

**Lessons.**—Accuracy of fire after movement. Judging distance. Sight setting and all points of weapon training.

**Method of conducting.**—Four figures will be exposed and the firer will engage them from wherever he likes.

**Time limit.**—Three minutes to fire the 10 rounds. Targets will drop when hit.

**General notes.—**

(a) This practice must be on an individual basis, as it will not be possible to fire as a detail.

(b) A small pit or suitable piece of cover is necessary for the markers. If this is not possible the targets must be fixed and a limit placed on the number of rounds to be fired at each target.

#### PRACTICE 4.—THE STALKER.

**No. of rounds.**—5.

**Targets.**—Any suitable figure—figure 4 preferably—placed in battle positions, firing round cover, from tree, etc.

**Range.**—Not exceeding 250 yards.

**Lessons.**—Use of ground. Accurate shooting after an advance under arduous conditions.

**Method of conducting.**—If markers' pit is available, the figure target will be exposed for a suitable period and lowered when hit. The stalker will have the enemy pointed out to him from a position in rear, which necessitates his stalking forward about 100 yards in order to be certain of a shot to kill.

**Points for criticism.**—Fieldcraft. Fire positions selected. Care of arms when advancing. Fire effect. All points of weapon training.

**General notes.—**

(a) The time limit will be dependent on the length and difficulty of the advance.

(b) If a pit or other suitable cover exists at the target position the stalker may be kept under observation throughout by means of a periscope. A round of ball or blank should be fired whenever he is seen.

#### PRACTICE 5.—L.M.G.

**No. of rounds.**—15 per man.

**Targets.**—Three figures 4 or other suitable service targets to be as far apart as possible consistent with safety.

**Range.**—About 300 yards.

**Lessons.**—Selection of alternative position. Self reliance and commonsense. Speed of obtaining fire effect with economy of ammunition.

**Method of conducting.**—Nos. 1 and 2 of the Bren are in a fire position.

One figure 4 is exposed representing an enemy L.M.G. and remains exposed until hit. When target is hit the umpire tells the crew that enemy L.M.G. is firing from alternative position (second figure 4) and orders them to engage. As soon as No. 1 has fired one burst (or three single rounds) at second figure 4, the umpire will "kill" No. 1 and the gun will be taken over by No. 2, who will engage the target from an alternative position until it drops on being hit.

**Points for criticism.**—Alternative position selected for gun. Selection of cover. Speed of bringing fire to bear. Judging distance and observation of fire.

**General notes.—**

(a) Gun crews should carry out this practice twice, the numbers changing round. Each man will then fire about 30 rounds.

(b) The targets may be placed in the ground before the beginning of the practice, if pits for the markers are not available.

The gaining of fire effect must then be explained by the umpire to the firer.

### APPENDIX III

#### SECTION BATTLE PRACTICES.

The following will be found suitable for production on Classification Ranges, using standard range equipment and facilities.

##### 1. "ATTACK."

Target.—Large Snap Disc: Figs. No. 4 (1 per rifleman).

Range.—300, etc.

Rounds.—10 per rifleman.

40 per L.M.G. (in 4 magazines of 10 each).

Details.—Section assembled in suitable formation, rifles loaded, about 400 yards from target position.

Simple Attack situation outlined to Sec. Comd. and direction of advance indicated.

Section Advances.—As it approaches the 300 point the large Snap Disc is exposed. (Controlling Officer warns Sec. Comd. that it represents an enemy automatic weapon, and that further advance is checked until it is dealt with.) The Disc will be lowered when 5 hits are registered on it. Immediately fire is opened on the Disc the Figures No. 4 are exposed, to fall as hit. (The largest possible interval should be arranged between the Disc and the nearest Figure No. 4; intervals between Figures to be from 3 to 5 yards.)

When all targets have been knocked down the Section can advance. The same target procedure occurs when the Section has reached about the 250 point. Should all targets be knocked down and the Section still have Ammunition, it can advance to about the 200 yard point, and again engage the targets on their exposure.

The section making the farthest advance will be the winner. Ties decided by the time factor and/or number of hits obtained.

When engaging the Disc, the L.M.G. will use "Automatic" fire only.

Bayonets to be fixed before reaching the 300 yards point.

Lessons.—Section fire control. Marksmanship. Initiative. Maximum fire power to be developed against threatening target.

##### 2. "DEFENCE."

Targets.—3 Figs. No. 2 attached to L.M.G. Screen; Figs. No. 4 (1 per rifleman).

Range.—300 approx.

Rounds.—10 per rifleman. 30 per L.M.G. (in 3 magazines of 10 each).

Details.—Section, rifles unloaded, ammunition securely buttoned in pouch, assembled in rear of 400 point.

Simple Defence situation outlined to Sec. Comd. Position to be occupied, etc., indicated. Sec. Comd. allowed 3 minutes in which to organise his section's arrangement, etc.

On a signal from the firing point the screen (with Figures No. 2 attached) is gradually raised to its full height (as if appearing over a crest).

(a) Should it be fired at during this movement, it will disappear immediately. If not fired at, it will remain stationary for 10 seconds, and as gradually be lowered under cover.

(b) Should it be fired at during the stationary period or when being lowered, it will disappear immediately.

Immediately after the disappearance of the screen the Figs. No. 4 are raised at intervals on either side of the screen's position. Intervals between Figures from 3 to 5 yards. The Figures are to be lowered as hit.

Two minutes after the initial exposure of the screen, all targets, whether hit or not, will be lowered and the Practice concluded.

Scoring.—Hits on Figures attached to screen = 3 pts. each.

Hits on Figures No. 4 = 1 pt. each.

Careful rehearsal of target arrangements necessary to ensure smooth working.

Lessons.—Prior arrangements—

Posting of sentry.

Ranges.

Reference points.

Loading.

Disposition of personnel, and plan if attacked.

Section fire control—

Maximum volume of fire at vulnerable target.

Quick control and engagement of fresh targets.

Observation of fire and fire discipline.

Marksmanship.

Initiative.

Sections waiting to be exercised should be disposed in such a position that they cannot observe the actions of the targets or overhear the orders given.

## APPENDIX IV IMPROVISED RANGES.

1. Under certain conditions, in the absence or inadequacy of normal range accommodation, it may be necessary to improvise means whereby personnel may be exercised in small arms practices.

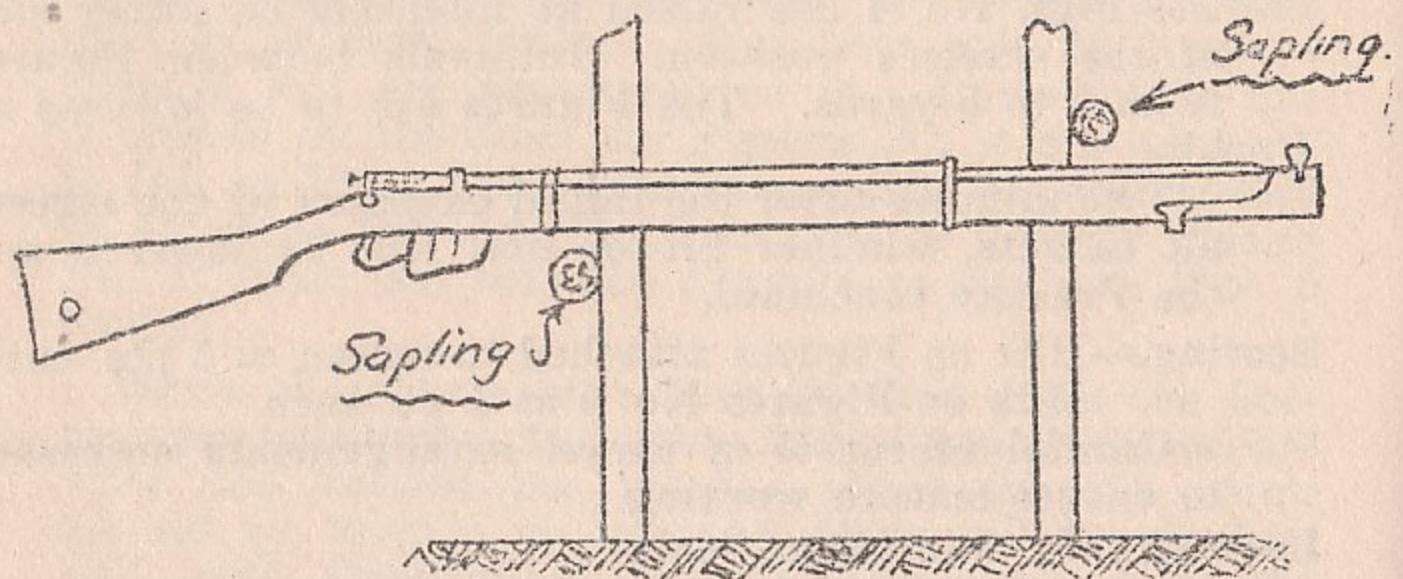
Such improvised methods, however, will be adopted only when authorised by formation, etc., commanders.

### 30-YARD RANGES.

2. The side of a hill, an embankment, a creek bed, etc., can be improvised for use as a 30-yard range. In such cases safety will be ensured by firing through slits sufficiently narrow to prevent the line of fire being elevated enough for bullets to pass over the top of the bank, creek bed, etc. With the rifle this can best be achieved by two saplings placed one over the other, leaving a narrow gap between them.

The following sketch (not to scale) will serve to illustrate the method of construction.

The construction must permit of proper control of the rifle being maintained with both hands.



With the L.M.G., partially-filled sand bags should be placed under the butt to prevent the gun being elevated too far.

Lateral movement can be limited by sand bags or pegs.

Necessary framework to hold targets is required at the target end.

### OPEN RANGES.

3. To complete the training of the soldier it is necessary that in addition to 30-yard practices he should also carry out practices at ranges which approximate to those which he is likely to use on service. Since classification ranges are

not likely to be available, the requirements of this form of practice will be met if the following are provided on a firing area:—

- (i.) An aiming mark.
- (ii.) An indication of where each shot falls.
- (iii.) A means of easily recognising each aiming mark, and of keeping the fire on a correct line in relation to the danger zone.

Records of Practices under these conditions will not be kept.

The aiming mark should be clearly visible, easily made and replaced, and should require no attention when placed in position.

4. The only indication of where each shot falls will be the "strike." The difficulty of this, under certain conditions, is realized, but by using the following methods the difficulties can be reduced and value received from the Practices:—

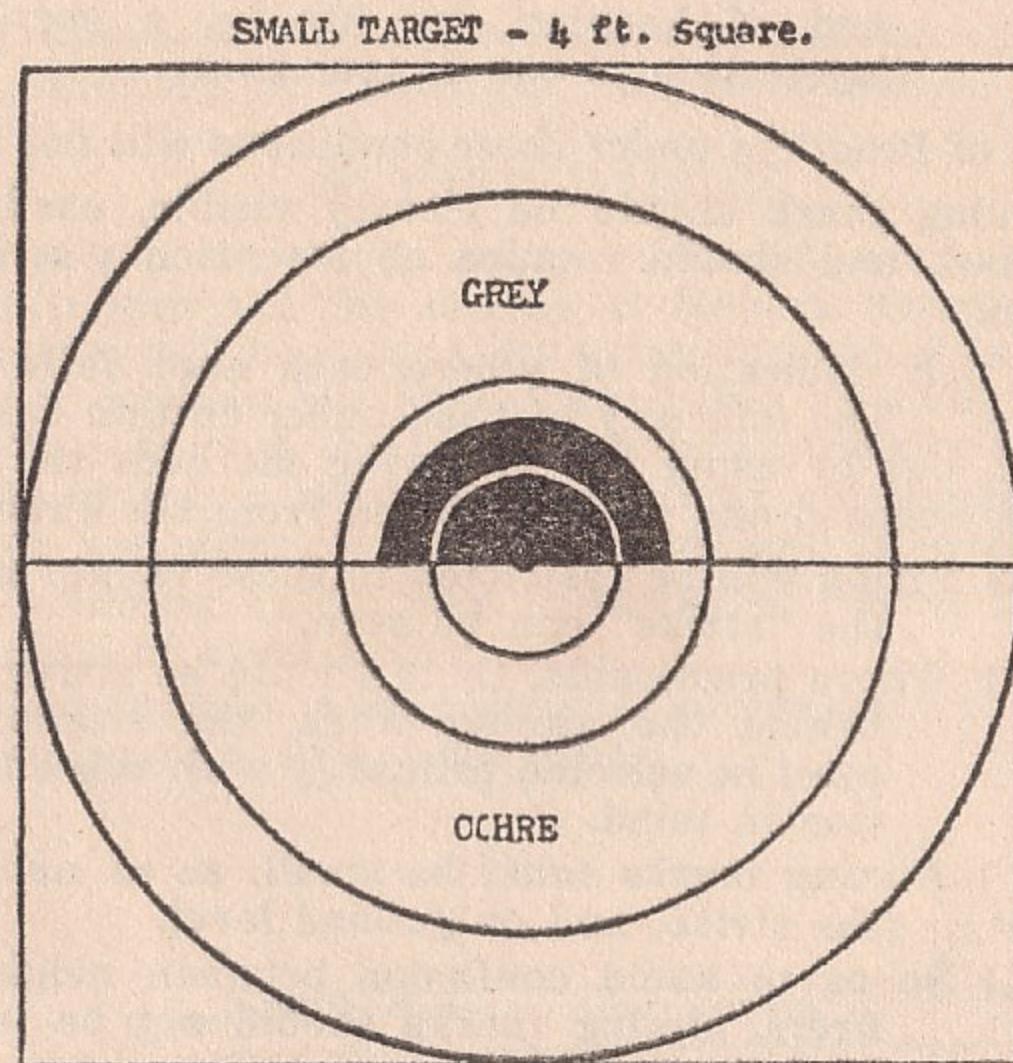
- (i.) Firing will be restricted to those ranges at which the "strike" can be seen.
- (ii.) Where practicable, there should be rising ground behind the aiming work, the site of which must be selected primarily with this consideration in mind.
- (iii.) Aiming marks must be small, so as not to hide the strike, and on ground level.
- (iv.) So as to avoid confusion between neighbouring firers, aiming marks should not be less than 10 feet apart.
- (v.) Each firer should have an observer, preferably his section commander, who will watch for the strike and advise the firer accordingly.
- (vi.) In extreme circumstances, it may be necessary to build a small mound behind each aiming mark.

5. Aiming marks will be numbered. A piece of three-ply, galvanised iron, chaff bag, etc., suitably numbered, being placed above or below the aiming mark, according to the lie of the ground. Similarly, numbered pegs will be placed at each firing point. So as to avoid loss of time on the range, the scale of aiming marks should be one per section of infantry, or equivalent in other arms.

6. Scores will be possible only on 30-yard practices. For other Practices units will maintain only a record of the number of times each individual has carried out a Practice, and the range at which it was fired. This is necessary to ensure that the maximum number of individuals get as much practice as possible at varying ranges.

7. The foregoing principles will be applied to Practices with all weapons.

APPENDIX V  
TARGETS REQUIRED FOR RANGE PRACTICES.



SMALL TARGET.

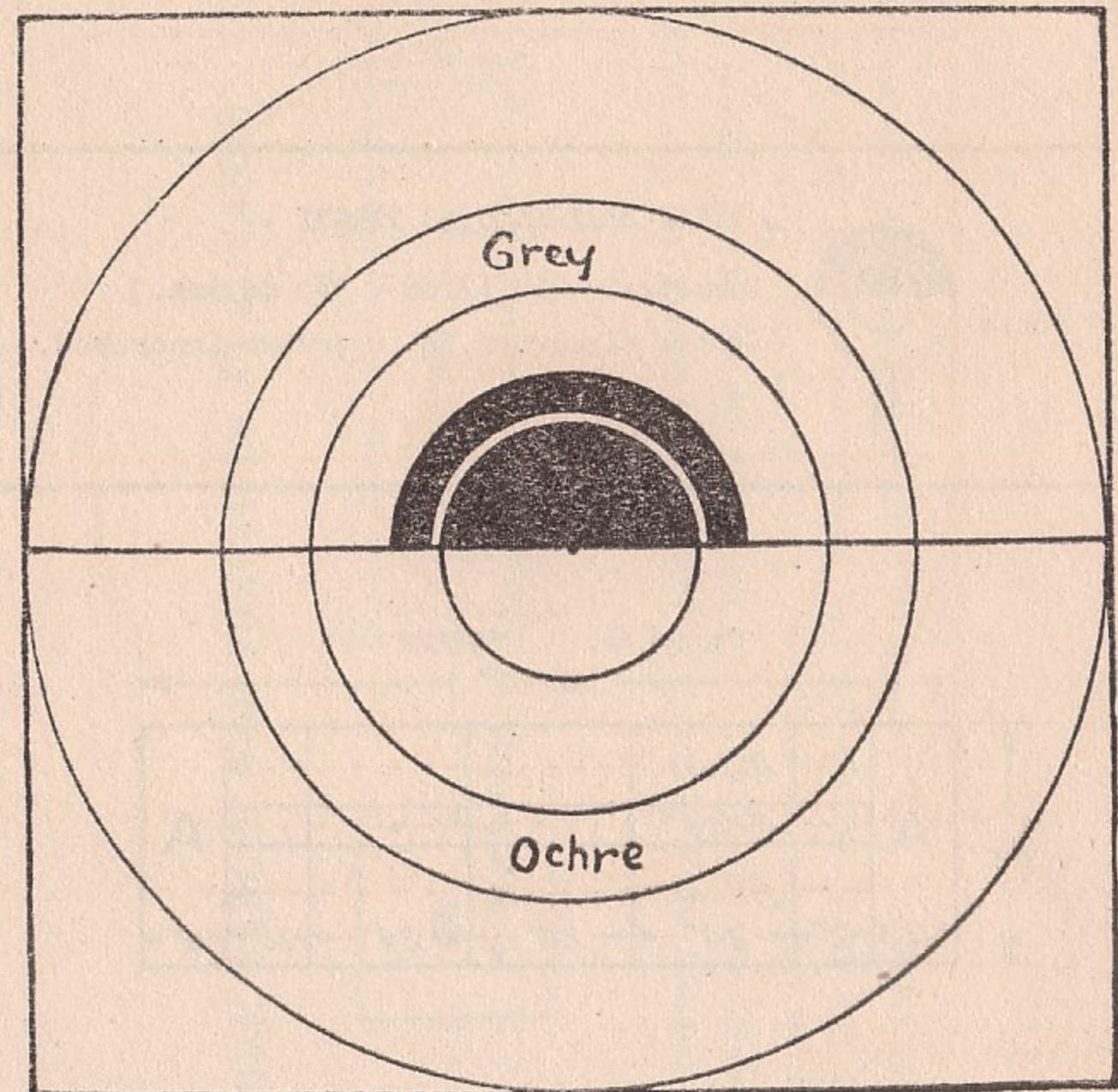
Dimensions:—

Aiming Mark, Black semi-circle,	diameter — 14"
Bullseye circle	" — 9"
Inner "	" — 18"
Magpie "	" — 36"
Outer "	" — 48"

GROUPING TARGETS.

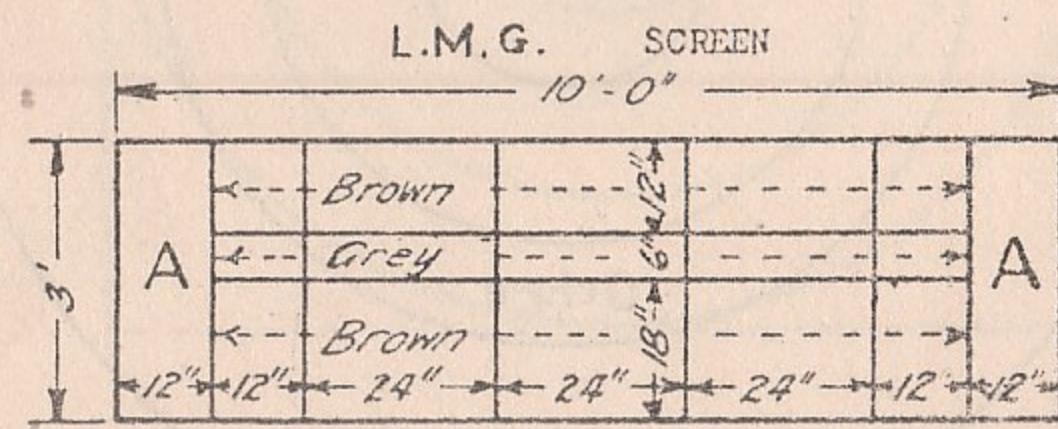
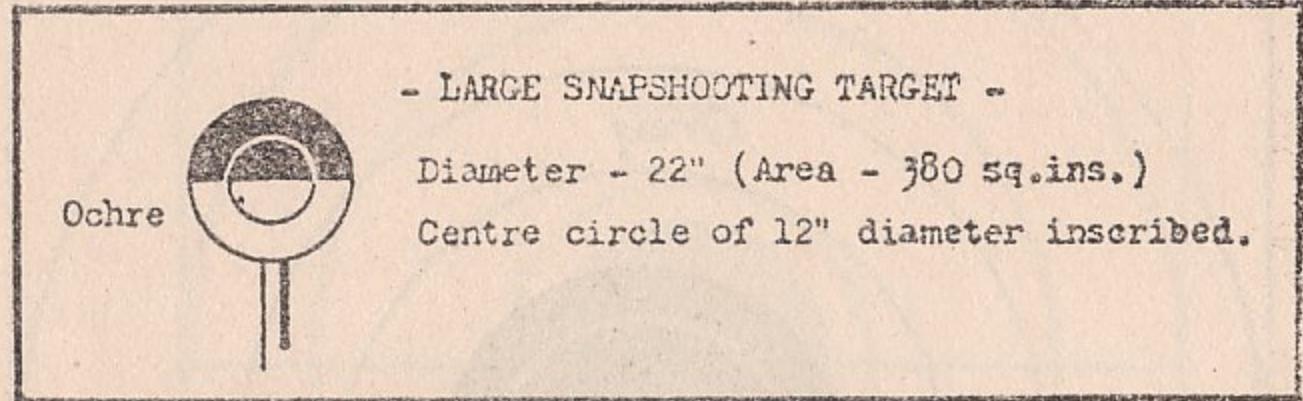
The Grouping Target will be the small target with a white aiming mark 4 inches high and 3 inches wide, placed vertically on the target, with the centre of the lower edge on the centre of the target.

LARGE TARGET—6 ft. square.



Dimensions:—

Aiming Mark, black semi-circle,	diameter — 24"
Bullseye circle	" — 18"
Inner "	" — 36"
Magpie "	" — 48"
Outer "	" — 72"



NOTE.—The 12" bands (marked "A") at each end of the screen will be the same colour as the background—the object being to render them as inconspicuous as possible. This enables a firer to aim correctly at either end of the brown portion of the screen and still get credit for all shots in such bursts.

#### MACHINE GUN TARGET FOR PRACTICES AT 25 YARDS.

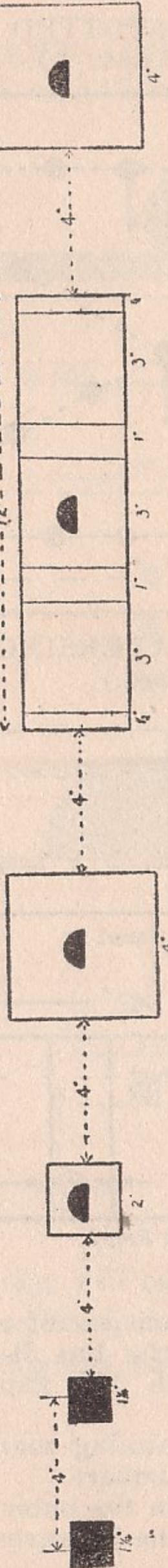
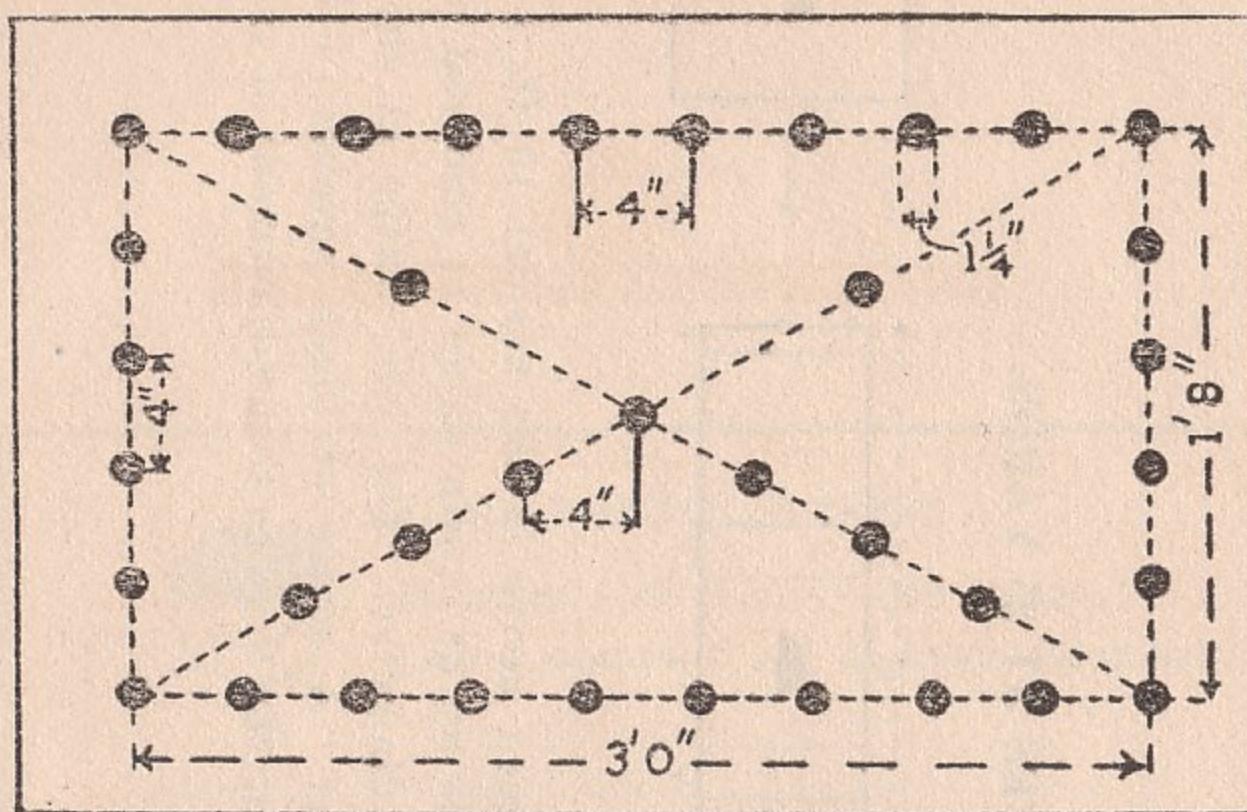
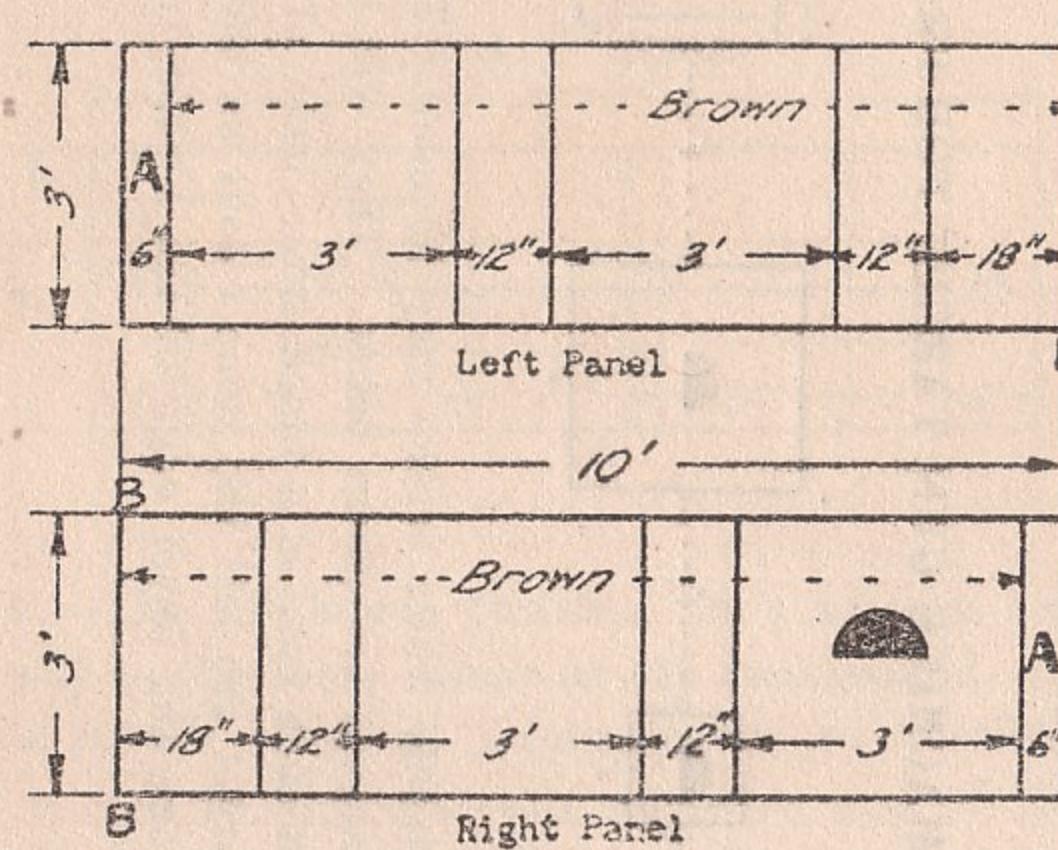


Fig. 1.—Any suitable white screen may be used. The screen above is the normal 10 ft. x 3 ft. The details of the targets are given below. They will be made up of brown paper or coloured brown. The Aiming Mark in each case is a black semi-circle of 1-in. diameter. The  $\frac{1}{2}$ -in. strips at the ends of the Traversing target are left the same colour as the screen. A series of black patches, 4 inches apart, are placed along the lower edge of the screen, to permit the firer to test adjustment of traversing clamp.

Fig. 2.—“MACHINE GUN SPOTTED PANEL” (suitable for Single Shot Practices), (Appx. I.).



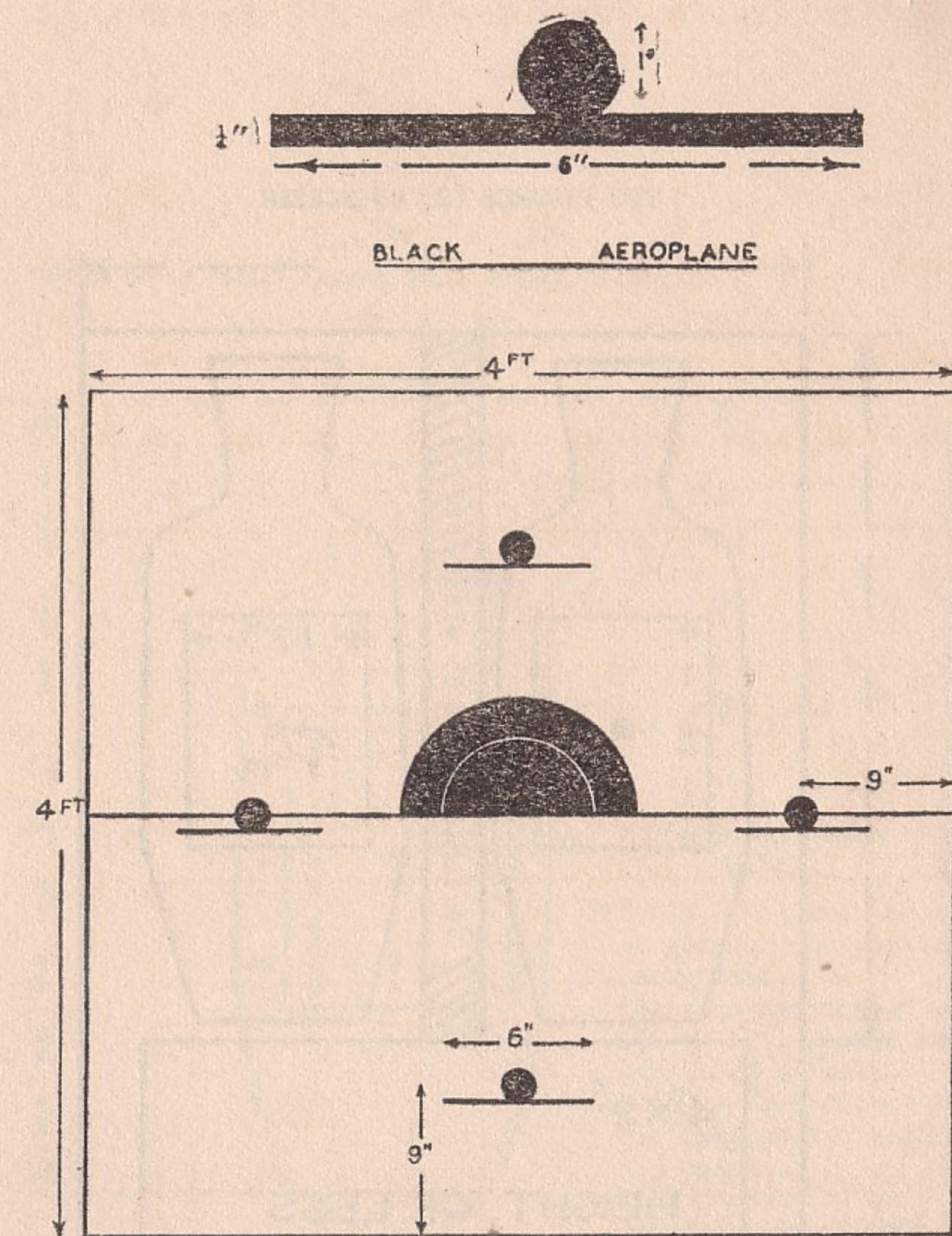
M.G. SCREEN FOR TRAVERSING PRACTICE.  
(20 feet.)



NOTES:-

1. The Machine Gun Screen consists of a Left and a Right panel, placed together on the line B—B. It consists of 5—3' scoring squares, with 12" gaps between scoring squares.
2. A 12" semi-circular black aiming mark is placed in the centre of the right scoring square.
3. The 6" strips (marked A) on the outer ends of the panels will be the same colour as the background.

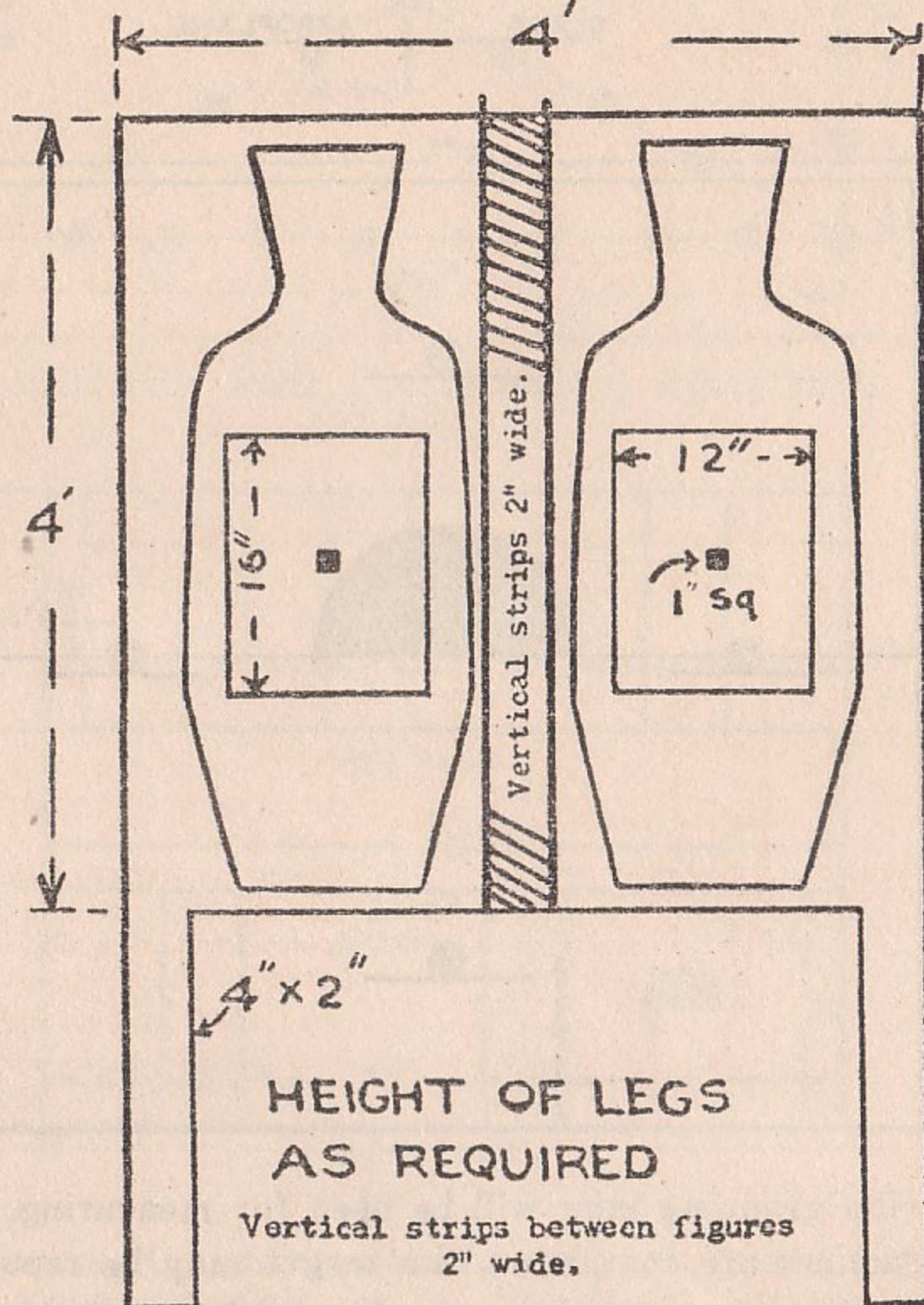
TARGET FOR ANTI-AIRCRAFT PRACTICES—  
A.A. ATTACKER.



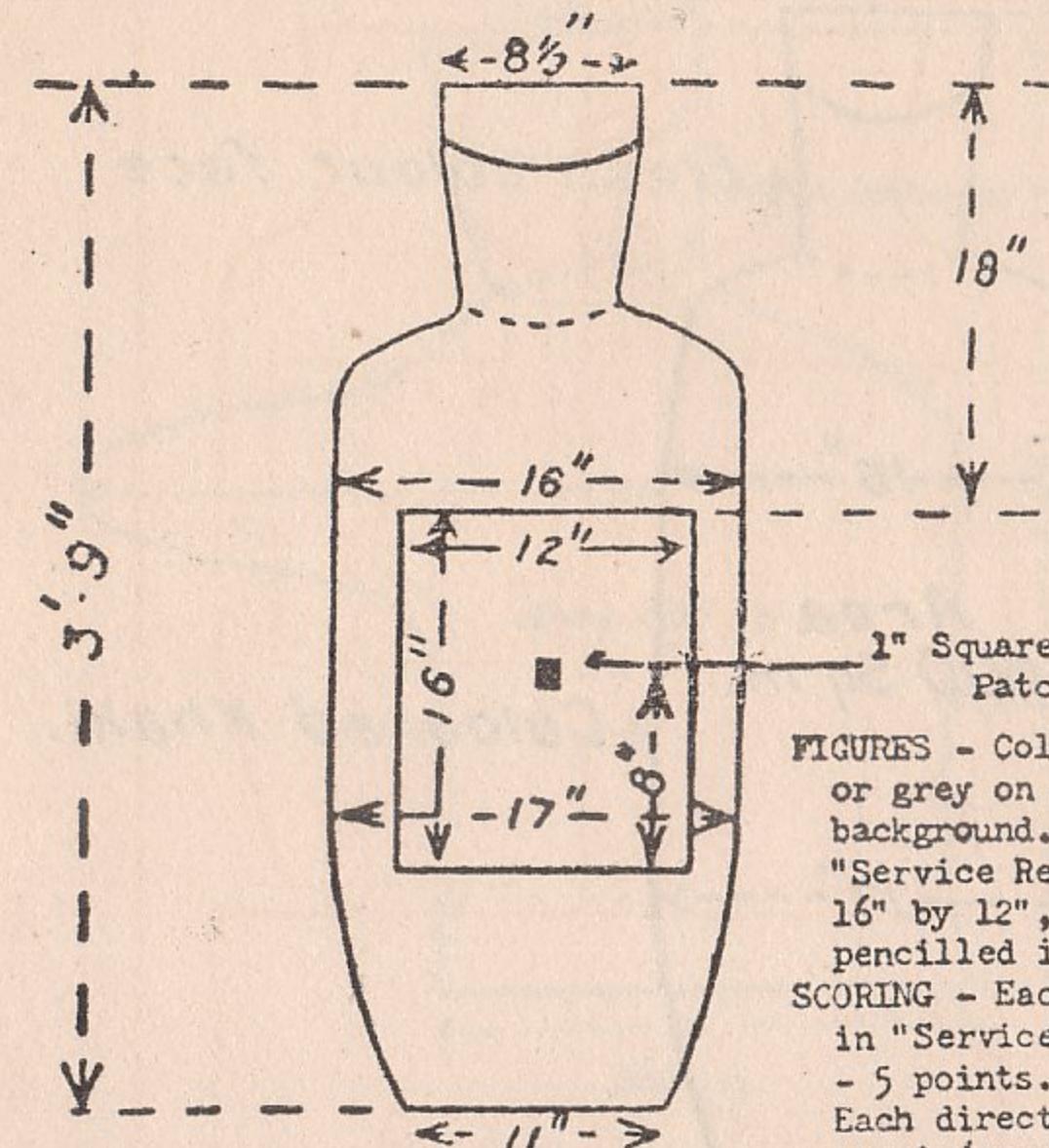
The rifle grouping ring will be used for measuring. When A.A. practices are completed, the target may be repaired by covering over the aeroplane patches with a suitable paper patch.

TARGET FOR PISTOL PRACTICES.

TWO FIGURES (2) ON SCREEN



Details of each Figure No.2 shown on screen



1" Square Black Patch.

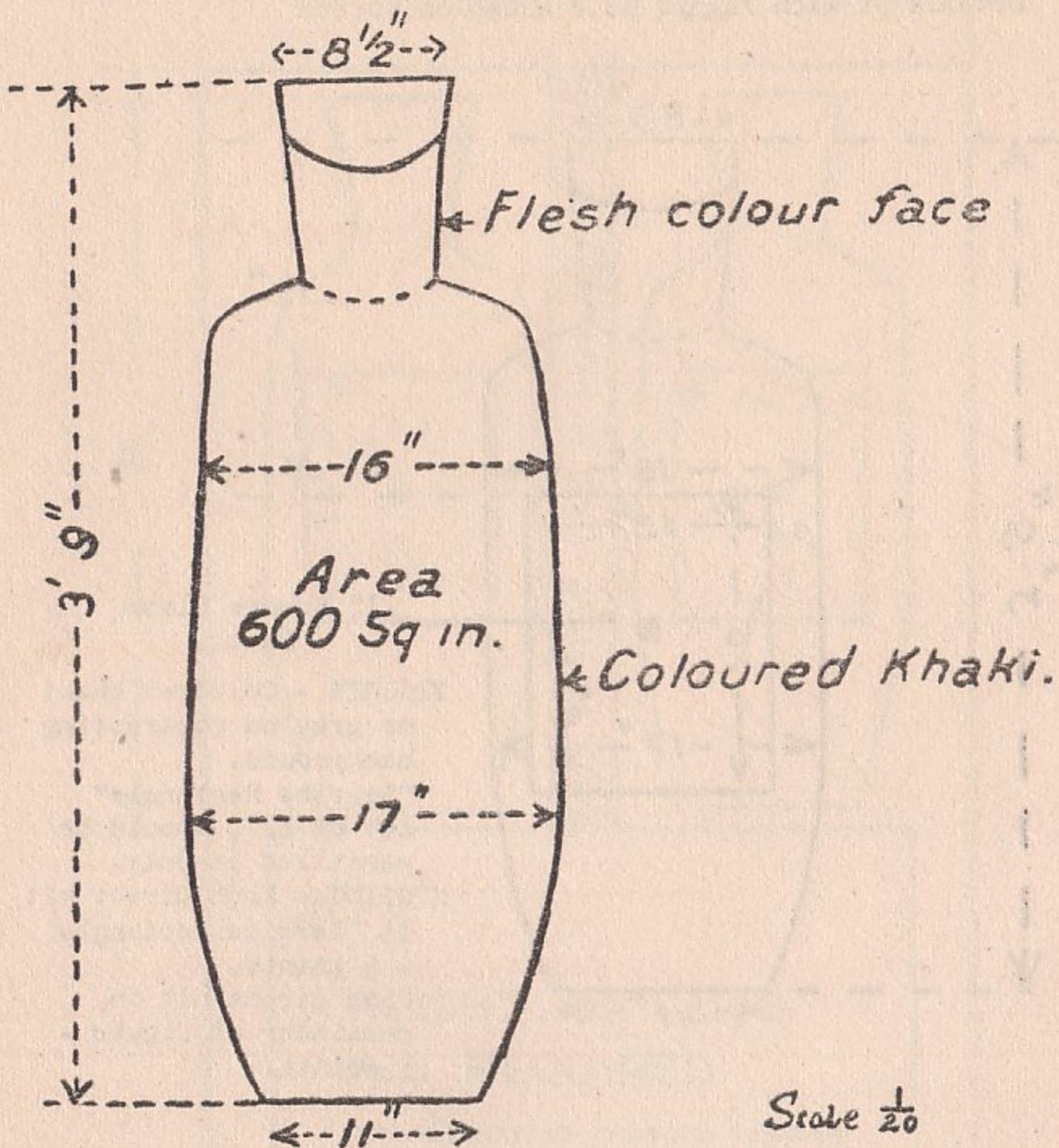
FIGURES - Coloured khaki or grey on contrasting background.

"Service Rectangle" 16" by 12", should be pencilled in only.

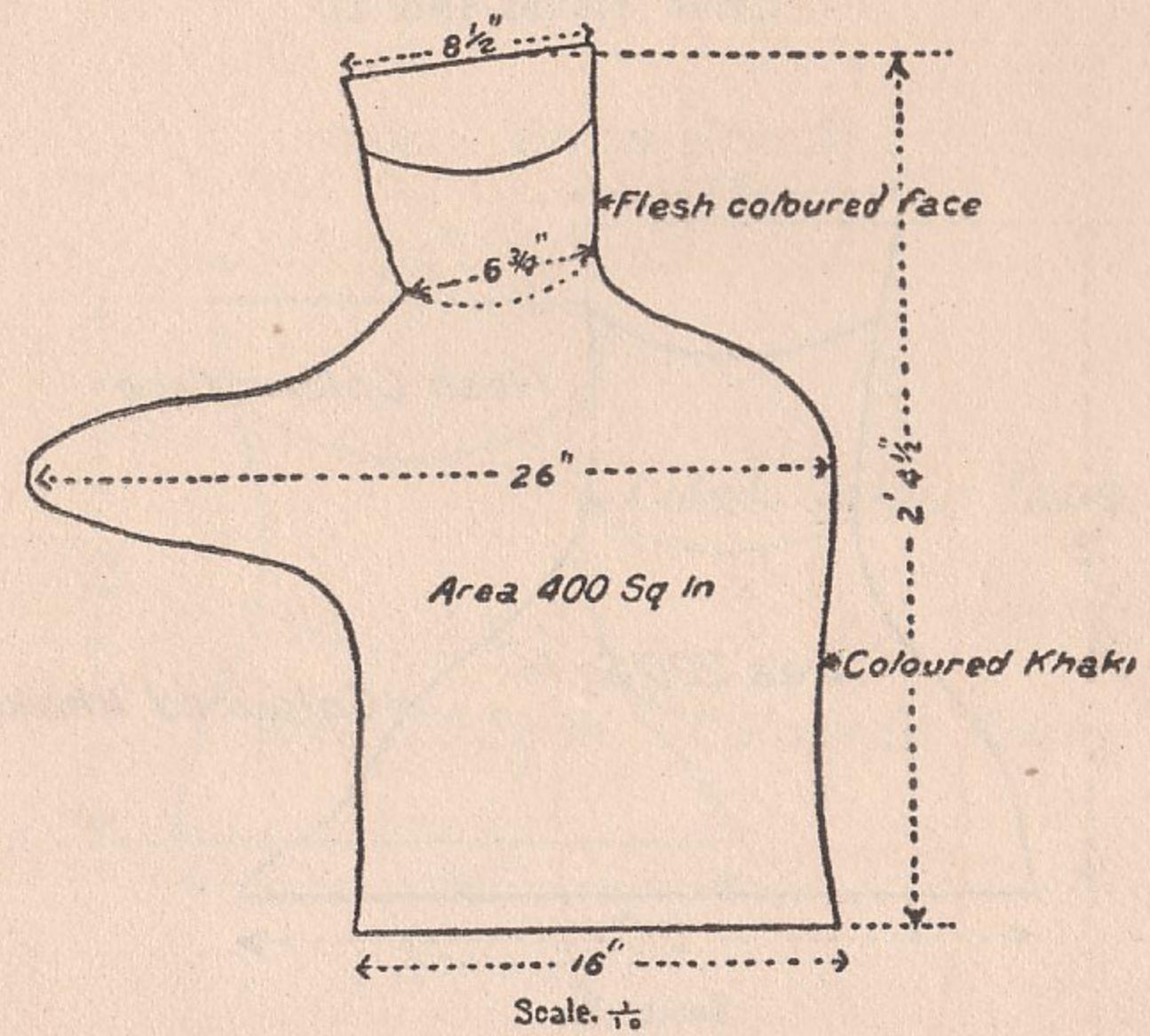
SCORING - Each direct hit in "Service rectangle" - 5 points.  
Each direct hit on remainder of figure - 4 points.

TARGETS FOR BATTLE PRACTICES.

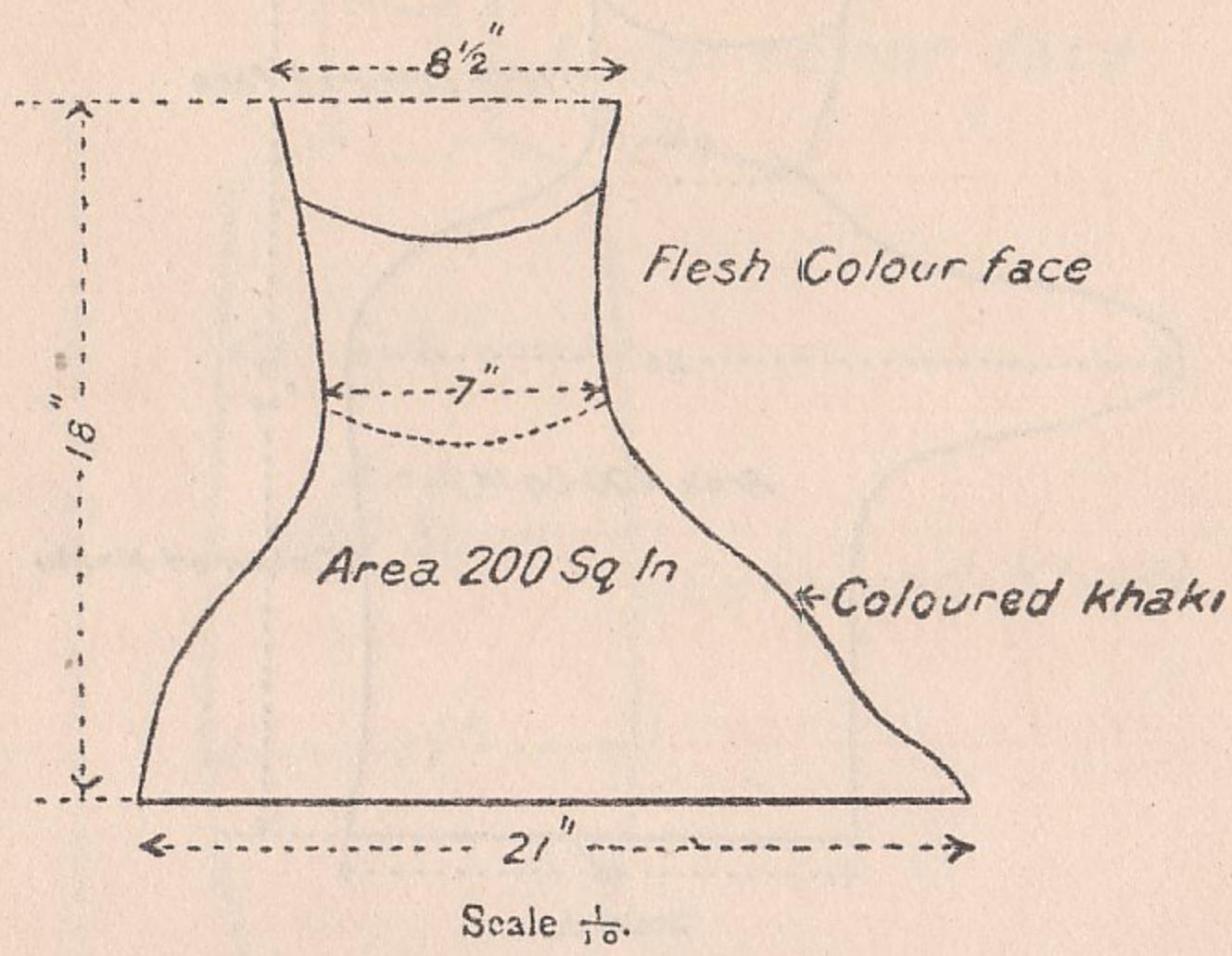
‡ Figure (No. 2).



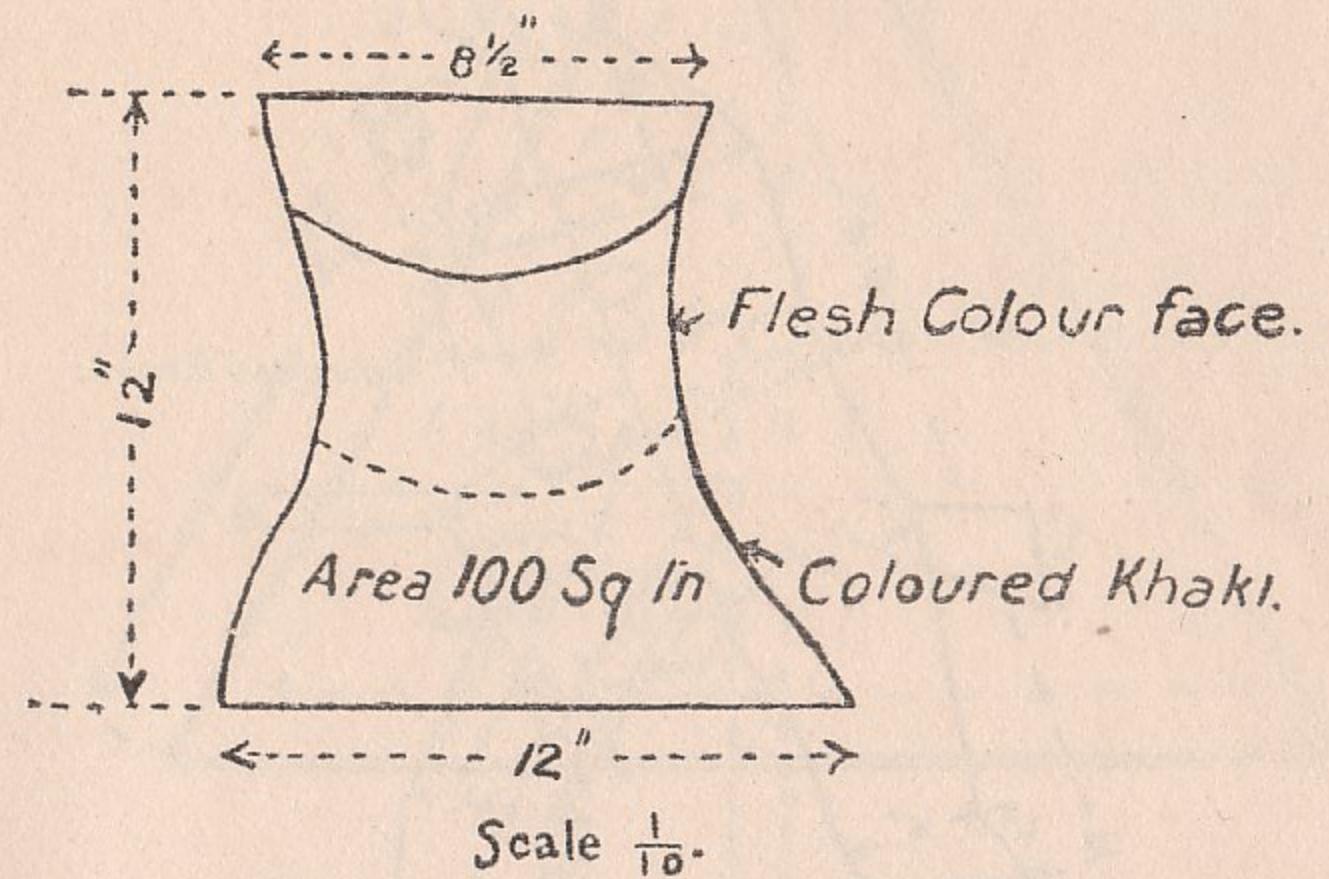
KNEELING FIGURE (No. 3).



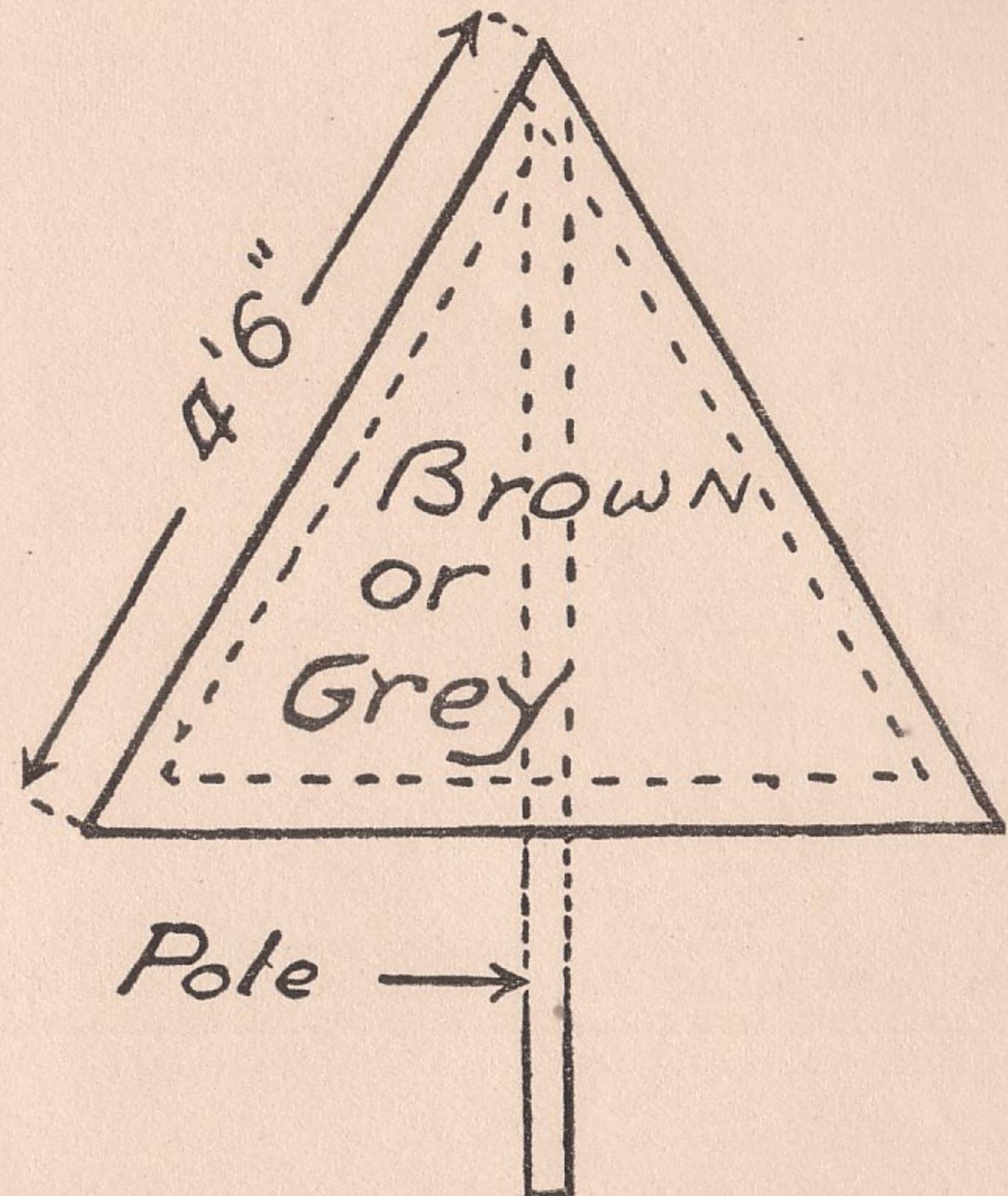
LYING FIGURE (No. 4).



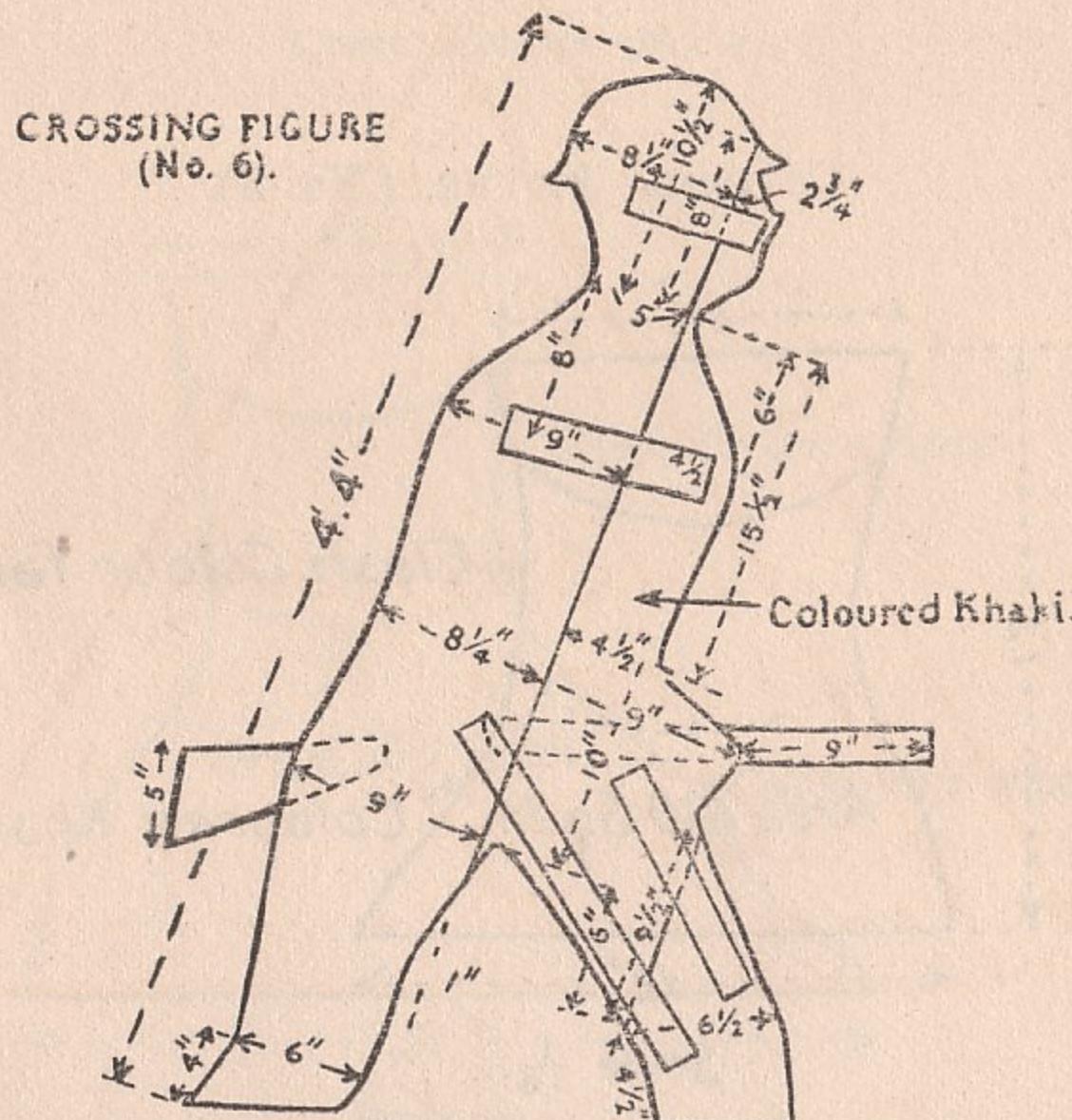
COVERED FIGURE (No. 5).



# M.G. TRIANGLE.



**CROSSING FIGURE**  
(No. 6).



Area = 665 sq. ins. Can be cut from 8 ft. 8 in. run of  
9 in. x  $\frac{1}{2}$  in. boarding, or made of veneer (3-ply) wood.



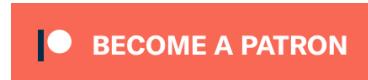
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